



NOV 01 2010

Stephen Hogg
Fresno/Clovis Regional WWTP
5607 W Jensen Ave
Fresno, CA 93706-9458

**Re: Notice of Preliminary Decision - Title V Permit Renewal
District Facility # C-535
Project # C-1052557**

Dear Mr. Hogg:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Fresno/Clovis Regional WWTP for its waste water treatment facility at 5607 W Jensen Ave, Fresno, 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

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

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

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
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NOV 01 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 # C-535
Project # C-1052557**

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 Fresno/Clovis Regional WWTP for its waste water treatment facility at 5607 W Jensen Ave, Fresno, 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

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NOV 01 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 # C-535
Project # C-1052557**

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 Fresno/Clovis Regional WWTP for its waste water treatment facility at 5607 W Jensen Ave, Fresno, 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

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Fresno Bee

**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 Fresno/Clovis Regional WWTP for its waste water treatment facility at 5607 W Jensen Ave, Fresno, California.

The District's analysis of the legal and factual basis for this proposed action, project #C-1052557, is available for public inspection at 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
Fresno/Clovis Regional WWTP
C-535**

TABLE OF CONTENTS

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	6
VIII. PERMIT REQUIREMENTS	6
IX. PERMIT SHIELD	23
X. PERMIT CONDITIONS	23
XI. ATTACHMENTS	23
A. DRAFT RENEWED TITLE V OPERATING PERMIT	
B. PREVIOUS TITLE V OPERATING PERMIT	
C. DISTRICT RULE 4311 STRINGENCY ANALYSIS	
D. DETAILED FACILITY LIST	

TITLE V PERMIT RENEWAL EVALUATION
Waste Water Treatment Facility

Engineer: Juscelino Siongco
Date: September 16, 2010

Facility Number: C-535
Facility Name: Fresno/Clovis Regional WWTP
Mailing Address: 5607 W Jensen Ave
Fresno, CA 93706

Contact Name: Raul Campos
Phone: (559) 621-5132

Responsible Official: Stephen Hogg
Title: Wastewater Manager

Project # : C-1052557
Deemed Complete: June 27, 2005

I. PROPOSAL

Fresno/Clovis Regional WWTP was issued a Title V permit on March 20, 2001. 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

Fresno/Clovis Regional WWTP is located at 5607 W Jensen Ave, Fresno, CA.

III. EQUIPMENT LISTING

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

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 may be 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 included in the proposed permit 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 September 21, 2006 ⇒ amended December 20, 2007)
- District Rule 2201, New and Modified Stationary Source Review Rule
(amended September 21, 2006 ⇒ amended December 18, 2008)
- District Rule 4101, Visible Emissions
(amended November 15, 2001 ⇒ amended February 17, 2005)
- District Rule 4306, Boilers, Steam Generators, and Process Heaters – Phase 3
(amended March 17, 2005 ⇒ amended October 16, 2008)

- District Rule 4311, Flares
(amended June 15, 2006 ⇒ amended June 18, 2009)
- District Rule 4601, Architectural Coatings
(amended October 31, 2001 ⇒ amended December 17, 2009)
- District Rule 4702, Internal Combustion Engines – Phase 2
(amended April 20, 2006 ⇒ amended January 18, 2007)
- District Rule 4703, Stationary Gas Turbines
(amended August 17, 2006 ⇒ amended September 20, 2007)
- 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 GG - Standards for Performance of Stationary Gas Turbines
(amended February 24, 2006)
- 40 CFR Part 63, Subpart YYYY, National Emissions Standards for Hazardous Air Pollutants for Stationary Combustion Turbines
(amended April 20, 2008)

- 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 1080, Stack Monitoring (amended December 17, 1992)
- District Rule 1081, Source Sampling (amended December 16, 1993)
- District Rule 2010, Permits Required (amended December 17, 1992)
- District Rule 2031, Transfer of Permits (amended December 17, 1992)
- District Rule 2070, Standards for Granting Applications (amended December 17, 1992)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 2520, Federally Mandated Operating Permits (amended June 21, 2001)
- District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)
- District Rule 4301, Fuel Burning Equipment (amended December 17, 1992)
- District Rule 4305, Boilers, Steam Generators, and Process Heaters – Phase 2 (amended August 21, 2003)
- District Rule 4801, Sulfur Compounds (amended December 17, 1992)
- 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
- 40 CFR Part 60, Subpart KKKK, Standards of Performance for Stationary Combustion Turbines
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos

- 40 CFR Part 64, Compliance Assurance Monitoring
- 40 CFR Part 72, Subpart A, Acid Rain Program

VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

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

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

A. District Rule 4102, Nuisance

1. C-535-0-2 – Facility-Wide Requirements

- Condition 41 on the proposed permit assures compliance with the requirements of this rule.

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

District Rule 4101 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. The rule was amended in February 17, 2005.

1. C-535-0-2 – Facility-Wide Requirements

- Condition 22 on the proposed permit assures compliance with the requirements of this rule.

D. District Rule 4311 – Flares

This rule limits the emissions of volatile organic compounds (VOC), oxides of nitrogen (NO_x), and sulfur oxides (SO_x) from the operation of flares.

The rule was amended in June 18, 2009 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 that was adopted in June 20, 2002.

1. C-535-9-3 – 36.3 MMBtu/hr John Zink Company Waste Gas Flare

- Conditions 5, 9, 10, 12 through 19, 26, and 27 on the proposed permit assure compliance with this rule.

E. 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. This rule was amended in October 16, 2008 with the following amendments.

Section 5.1 requires that NO_x and CO emissions shall not exceed the limits specified in Table 1. For units with a rated heat input equal to or less than 20.0 MMBtu/hr (Table 1 Category A), NO_x and CO emissions shall not exceed 15 ppmv and 400 ppmv, respectively. Units emissions, limited to an annual heat input of 9 billion Btu/year to 30 billion Btu/year (Table 1, Category H), shall not exceed 30 ppmv NO_x per year and 400 ppmv CO per year.

Section 5.3 states that emission limits shall not apply during start-up or shutdown provided an operator complies with the requirements that the duration of each start-up or each shutdown shall not exceed two hours, the emission control system shall be in operation and emissions shall be minimized insofar as technologically feasible during start-up or shutdown, and an operator may submit an application for a permit condition to allow more than two hours for each start-up or each shutdown provided the operator meets all of the conditions specified in Sections 5.3.3.1 through 5.3.3.3.

Section 5.4 requires that operators of any unit subject to the applicable emission limits of the rule shall install and maintain an operational APCO approved Continuous Emissions Monitoring System (CEMS) for NO_x, CO, and oxygen, or implement an APCO-approved Alternate Monitoring System. The operator of any Category H units shall install and maintain an operational non-resettable, totalizing mass or volumetric flow meter in each fuel line to each unit.

Section 6.1 requires that 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.

Section 6.2 identifies the applicable test methods.

Section 6.3 requires that units 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.

The following permit requirements ensure compliance with this rule:

1. C-535-6-4 – 16.7 MMBtu/hr Cleaver-Brooks Digester-Fired Boiler
 - Conditions 4, 10 through 15, 17, 20, 21, 22, 23, and 25 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 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.

1. C-535-0-2 – Facility-Wide Requirements

- Conditions 23, 24, and 25 on the proposed permit assure compliance with this rule.

G. District Rule 4702 – Internal Combustion Engines–Phase 2

This rule limits emissions of nitrogen oxides (NOx), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion (IC) engines. The rule was amended in January 18, 2007.

1. C-535-10-2 – 2518 bhp Caterpillar Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator

- Conditions 1 and 2 from the PTO are included as conditions 1 and 2 on the proposed permit.
- Conditions 3, 4, and 5 from the PTO are replaced by condition 3 on the proposed permit that requires the use of CARB certified diesel fuel.
- Condition 6 from the PTO is superseded by condition 13 that is the updated recordkeeping condition.

- Conditions 7 and 8 from the PTO are extraneous and are not included in the proposed permit.
 - Condition 9 from the PTO is included as condition 17 on the proposed permit.
 - Condition 10 from the PTO is included as condition 15 on the proposed permit.
 - Condition 11 from the PTO is obsolete and is not included in the proposed permit. Fresno County Rule 404 had been superseded by SIP-approved District Rule 4201.
 - Conditions 12 through 15 from the PTO are included as conditions 6 through 9 on the proposed permit.
 - Condition 16 from the PTO is included as condition 9 on the proposed permit. The 200 hours per year operation for engine maintenance and testing is reduced to 20 hours per year per California Code of Regulation (CCR) 93115.
 - Condition 17 from the PTO is included as condition 14 on the proposed permit.
 - Conditions 18 and 19 from the PTO are extraneous and not included in the proposed permit.
2. C-535-11-2 – 140 bhp Caterpillar Diesel-Fired Emergency IC Engine Powering a Water Transfer Pump
- Conditions 1 and 2 from the PTO are included as conditions 1 and 2 on the proposed permit.
 - Conditions 3, 4, and 5 from the PTO are replaced by condition 3 on the proposed permit that requires the use of CARB certified diesel fuel.
 - Condition 6 from the PTO is superseded by condition 12 that is the updated recordkeeping condition.
 - Conditions 7 and 8 from the PTO are extraneous and are not included in the proposed permit.
 - Condition 9 from the PTO is included as condition 14 on the proposed permit.
 - Condition 10 from the PTO is included as condition 13 on the proposed permit.
 - Condition 11 from the PTO is obsolete and is not included in the proposed permit. Fresno County Rule 404 had been superseded by SIP-approved District Rule 4201.
 - Condition 12 from the PTO is included as condition 7 on the proposed permit.
 - Conditions 13 and 14 from the PTO are included as condition 5 on the proposed permit. The 200 hours per year operation for engine

maintenance and testing is reduced to 20 hours per year per California Code of Regulation (CCR) 93115.

- Condition 15 from the PTO is included as condition 12 on the proposed permit.
- Conditions 16 and 17 from the PTO are extraneous and not included in the proposed permit.
- Condition 18 from the PTO is included as condition 8 on the proposed permit.

3. C-535-12-2 – 140 bhp Caterpillar Diesel-Fired Emergency IC Engine Powering a Water Transfer Pump

- Conditions 1 and 2 from the PTO are included as conditions 1 and 2 on the proposed permit.
- Conditions 3, 4, and 5 from the PTO are replaced by condition 3 on the proposed permit that requires the use of CARB certified diesel fuel.
- Condition 6 from the PTO is superseded by condition 12 that is the updated recordkeeping condition.
- Conditions 7 and 8 from the PTO are extraneous and are not included in the proposed permit.
- Condition 9 from the PTO is included as condition 14 on the proposed permit.
- Condition 10 from the PTO is included as condition 13 on the proposed permit.
- Condition 11 from the PTO is obsolete and is not included in the proposed permit. Fresno County Rule 404 had been superseded by SIP-approved District Rule 4201.
- Condition 12 from the PTO is included as condition 7 on the proposed permit.
- Conditions 13 and 14 from the PTO are included as condition 5 on the proposed permit. The 200 hours per year operation for engine maintenance and testing is reduced to 20 hours per year per California Code of Regulation (CCR) 93115.
- Condition 15 from the PTO is included as condition 12 on the proposed permit.
- Conditions 16 and 17 from the PTO are extraneous and not included in the proposed permit.
- Condition 18 from the PTO is included as condition 8 on the proposed permit.

4. C-535-17-2 – 455 bhp Cummins Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator

- Conditions 1 and 2 from the PTO are included as conditions 1 and 2 on the proposed permit.
- Conditions 3, 4, and 5 from the PTO are replaced by condition 3 on the proposed permit that requires the use of CARB certified diesel fuel.
- Condition 6 from the PTO is superseded by condition 14 that is the updated recordkeeping condition.
- Conditions 7 and 8 from the PTO are extraneous and are not included in the proposed permit.
- Condition 9 from the PTO is included as condition 15 on the proposed permit.
- Condition 10 from the PTO is included as condition 16 on the proposed permit.
- Condition 11 from the PTO is obsolete and is not included in the proposed permit. Fresno County Rule 404 had been superseded by SIP-approved District Rule 4201.
- Conditions 12, 13, and 14 from the PTO are included as conditions 6, 7, and 8 on the proposed permit.
- Condition 15 from the PTO is included as condition 5 on the proposed permit. The 200 hours per year operation for engine maintenance and testing is reduced to 20 hours per year per California Code of Regulation (CCR) 93115.
- Condition 16 from the PTO is included as condition 14 on the proposed permit.

5. C-535-20-2 – 158 bhp Deutz Low-Use Diesel-Fired IC Engine

- Condition 1 from the PTO is included as condition 41 of the facility-wide permit.
- Condition 2 from the PTO is included as condition 1 on the proposed permit.
- Condition 3 from the PTO is included as condition 22 on the facility-wide permit.
- Conditions 4 through 6 from the PTO are included as conditions 2, 3, and 5 on the proposed permit.
- Condition 7 from the PTO is included as condition 4 on the proposed permit.
- Conditions 8 through 10 from the PTO are included as conditions 6 through 8 on the proposed permit.
- Condition 11 from the PTO is deleted since it is a duplicated of the updated conditions 7 and 8 on the proposed permit.

6. C-535-21-2 – 158 bhp Deutz Low-Use Diesel-Fired IC Engine

- Condition 1 from the PTO is included as condition 41 of the facility-wide permit.
- Condition 2 from the PTO is included as condition 1 on the proposed permit.
- Condition 3 from the PTO is included as condition 22 on the facility-wide permit.
- Conditions 4 through 6 from the PTO are included as conditions 2, 3, and 5 on the proposed permit.
- Condition 7 from the PTO is included as condition 4 on the proposed permit.
- Conditions 8 through 10 from the PTO are included as conditions 6 through 8 on the proposed permit.
- Condition 11 from the PTO is deleted since it is a duplicated of the updated conditions 7 and 8 on the proposed permit.

7. C-535-24-2 – 125 bhp John Deere Transportable Diesel-Fired IC Engine Powering an Air Compressor

- Condition 1 from the PTO is included as condition 41 of the facility-wide permit.
- Condition 2 from the PTO is included as condition 1 on the proposed permit.
- Condition 3 from the PTO is included as condition 22 on the facility-wide permit.
- Conditions 4 through 16 from the PTO are included as conditions 2 through 14 on the proposed permit.

H. District Rule 4703 – Stationary Gas Turbines

The rule limits oxides of nitrogen (NO_x) emissions from stationary gas turbine systems. The provisions of this rule apply to all stationary gas turbine systems, which are subject to District permitting requirements, and with ratings equal to or greater than 0.3 megawatt (MW) or a maximum heat input rating of more than 3,000,000 Btu per hour. This rule was amended September 20, 2007.

1. C-535-18-3 – 3.377 MW Digester/Natural Gas-Fired Turbine Generator #1 with Water Injection and Heat Recovery Steam Generator

- Conditions 2 and 4 on the current PTO are removed and included as conditions 41 and 22, respectively, in the facility-wide requirements.
- Conditions 5, 9, 10, 12, 15, 16, 17, 19, 24, and 26 on the proposed permit assure compliance with this rule.

2. C-535-19-3 – 3.377 MW Digester/Natural Gas-Fired Turbine Generator #2 with Water Injection and Heat Recovery Steam Generator

- Conditions 2 and 4 on the current PTO are removed and included as conditions 41 and 22, respectively, in the facility-wide requirements.
- Conditions 5, 9, 10, 12, 15, 16, 17, 19, 24, and 26 on the proposed permit assure compliance with this rule.

I. District Rule 8011 – General Requirements

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. The rule was amended in August 19, 2004.

1. C-535-0-2 – Facility-Wide Requirements

- Conditions 29 through 34 on the proposed permit assure compliance with this rule.

J. 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. The rule was amended in August 19, 2004.

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. C-535-0-2 – Facility-Wide Requirements

- Condition 29 on the proposed permit assures compliance with this rule.

K. 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. The rule was amended in August 19, 2004.

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. C-535-0-2 – Facility-Wide Requirements

- Condition 30 on the proposed permit assures compliance with this rule.

L. District Rule 8041 – Carryout and Trackout

The purpose of this rule is to limit fugitive dust emissions from carryout and trackout. The rule was amended in August 19, 2004.

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. C-535-0-2 – Facility-Wide Requirements

- Condition 31 on the proposed permit assures compliance with this rule.

M. District Rule 8051 – Open Areas

The purpose of this rule is to limit fugitive dust emissions from open areas. The rule was amended in August 19, 2004.

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. C-535-0-2 – Facility-Wide Requirements

- Condition 32 on the proposed permit assures compliance with this rule.

N. 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. The rule was amended in August 19, 2004.

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

1. C-535-0-2 – Facility-Wide Requirements

- Condition 33 on the proposed permit assures compliance with this rule.

O. 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. The rule was amended in September 16, 2004.

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

1. C-535-0-2 – Facility-Wide Requirements

- Condition 34 on the proposed permit assures compliance with this rule.

P. 40 CFR 60, Subpart GG – Standards of Performance for Stationary Gas Turbines

The provisions of this subpart are applicable to all stationary gas turbines with a heat input at peak load equal to or greater than 10 million Btu per hour. Section 60.334 and 60.335 of this Subpart was amended February 24, 2006.

The amended provisions, 40 CFR 60.334(c), (e), and (f) clarify that the monitoring methods are options rather than requirements for turbines that do not use water or steam to control NO_x emissions. In addition, the introductory text of 40 CFR 60.334(j), 60.334(j)(1)(iv), and 40 CFR 60.335(b)(8) were also revised to reflect the amended provisions of 40 CFR 60.334(c), (e), and (f). Since this permit unit uses water/steam injection to control NO_x emissions, the amended provisions are not applicable this gas turbine.

1. C-535-18-3 – 3.377 MW Digester/Natural Gas-Fired Turbine Generator #1 with Water Injection and Heat Recovery Steam Generator

- Conditions 4, 5, 9, 19 through 23, 25, and 28 on the proposed permit assure compliance with this rule.

2. C-535-19-3 – 3.377 MW Digester/Natural Gas-Fired Turbine Generator #2 with Water Injection and Heat Recovery Steam Generator

- Conditions 4, 5, 9, 19 through 23, 25, and 28 on the proposed permit assure compliance with this rule.

Q. 40 CFR Part 60, Subpart III – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

This subpart applies to owners and operators of stationary compression ignition (CI) internal combustion engines (ICE) that commences construction, modify, or reconstruct their stationary CI ICE after July 11, 2005.

The facility does not have any CI ICE subject to this subpart.

R. 40 CFR 60, Subpart KKKK – Standards of Performance for Stationary Combustion Turbines

This subpart establishes emission standards and compliance schedules for the control of emissions from stationary combustion turbines that commenced construction, modification or reconstruction after February 18, 2005.

These permit units are not subject to this subpart since the units had not undergone construction, modification or reconstruction after the February 18, 2005.

S. 40 CFR Part 63, Subpart YYYY – National Emissions Standards for Hazardous Air Pollutants for Stationary Combustion Turbines

This subpart establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emissions from stationary combustion turbines located at major sources of HAP emissions, and requirements to demonstrate initial and continuous compliance with the emission and operating limitations.

The facility is not a major or area source of HAP emissions and is not subject to this subpart.

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

This subpart establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary

reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions.

The facility is not a major or area source of HAP emissions and is not subject to this subpart.

U. 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. C-535-6-4 – 16.7 MMBtu/hr Cleaver-Brooks Digester-Fired Boiler

This permit unit has emissions limits for NO_x, SO_x, PM₁₀, 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 NO_x, SO_x, PM₁₀, CO, and VOC.

2. C-535-9-3 – 36.3 MMBtu/hr John Zink Company Waste Gas Flare

This permit unit has emissions limits for NO_x, SO_x, PM₁₀, 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 NO_x, SO_x, PM₁₀, CO, and VOC.

3. C-535-10-2 – 2518 bhp Caterpillar Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator

The permit unit has emissions limits for SO_x, and PM₁₀. There are no add-on controls for SO_x, and PM₁₀ therefore CAM is not applicable for SO_x, and PM₁₀.

4. C-535-11-2 – 140 bhp Caterpillar Diesel-Fired Emergency IC Engine Powering a Water Transfer Pump

The permit unit has emissions limits for NO_x, SO_x, and PM₁₀. There are no add-on controls for NO_x, SO_x, and PM₁₀ therefore CAM is not applicable for NO_x, SO_x, and PM₁₀.

5. C-535-12-2 – 140 bhp Caterpillar Diesel-Fired Emergency IC Engine Powering a Water Transfer Pump

The permit unit has emissions limits for NO_x, SO_x, and PM₁₀. There are no add-on controls for NO_x, SO_x, and PM₁₀ therefore CAM is not applicable for NO_x, SO_x, and PM₁₀.

6. C-535-13-2 – Odor Control Scrubbing System

The permit unit may be subject to CAM since it has an emissions limit for VOC and is equipped with a packed tower scrubber that controls 70% of the permit unit's VOC emissions. However, the pre-control VOC potential to emit is less than the major source threshold of 50,000 pounds VOC/year.

From Project C-960372, the uncontrolled VOC emissions from the headworks area is 0.25 lb per MG¹ which is based on source test for VOC emissions from headworks at Coachella Valley Water District POTW, 1993. The permit unit is limited to 106 MG per day influent flow rate.

$$\text{VOC/yr} = 0.25 \text{ lb/MG} \times 106 \text{ MG/day} \times 365 \text{ days/yr} = \mathbf{9,673 \text{ lb-VOC/yr}}$$

Therefore, this unit is not subject to CAM.

7. C-535-17-2 – 455 bhp Cummins Diesel-Fired Emergency Standby IC Engine Powering an Electrical Generator

The permit unit has emissions limits for NO_x, SO_x, and PM₁₀. There are no add-on controls for NO_x, SO_x, and PM₁₀ therefore CAM is not applicable for NO_x, SO_x, and PM₁₀.

¹ MG = thousand gallons

8. C-535-18-3 – 3.377 MW Digester/Natural Gas-Fired Turbine Generator #1 with Water Injection and Heat Recovery Steam Generator

The permit unit has emissions limits for all five criteria pollutants (NO_x, SO_x, PM₁₀, CO, and VOC). There are no add-on controls for SO_x, PM₁₀, and VOC therefore CAM is not applicable for SO_x, PM₁₀, and VOC.

Based on 40 CFR 64.2(b)(1)(vi), NO_x and CO emissions limits are exempt from CAM since the Part 70 permit already specifies a continuous compliance determination method for both NO_x and CO.

9. C-535-19-3 – 3.377 MW Digester/Natural Gas-Fired Turbine Generator #2 with Water Injection and Heat Recovery Steam Generator

The permit unit has emissions limits for all five criteria pollutants (NO_x, SO_x, PM₁₀, CO, and VOC). There are no add-on controls for SO_x, PM₁₀, and VOC therefore CAM is not applicable for SO_x, PM₁₀, and VOC.

Based on 40 CFR 64.2(b)(1)(vi), NO_x and CO emissions limits are exempt from CAM since the Part 70 permit already specifies a continuous compliance determination method for both NO_x and CO.

10. C-535-20-2 – 158 bhp Deutz Low-Use Diesel-Fired IC Engine

The permit unit has emissions limits for NO_x, SO_x, PM₁₀, CO, and VOC. There are no add-on controls for NO_x, SO_x, PM₁₀, CO, and VOC therefore CAM is not applicable for NO_x, SO_x, PM₁₀, CO, and VOC.

11. C-535-21-2 – 158 bhp Deutz Low-Use Diesel-Fired IC Engine

The permit unit has emissions limits for NO_x, SO_x, PM₁₀, CO, and VOC. There are no add-on controls for NO_x, SO_x, PM₁₀, CO, and VOC therefore CAM is not applicable for NO_x, SO_x, PM₁₀, CO, and VOC.

12. C-535-24-2 – 125 bhp John Deere Transportable Diesel-Fired IC Engine Powering an Air Compressor

The permit unit has emissions limits for NO_x, SO_x, PM₁₀, CO, and VOC. There are no add-on controls for NO_x, SO_x, PM₁₀, CO, and VOC therefore CAM is not applicable for NO_x, SO_x, PM₁₀, CO, and VOC.

V. 40 CFR Part 72, Subpart A – Acid Rain Program

Per §72.6(b)(8), non-utility units are not affected units subject to the requirements of the Acid Rain Program. Utility means any person that sells electricity. This facility generates electricity for its own requirements and the units are not subject to these 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

The permit shields for Fresno County Rule 404 are obsolete and are removed from existing permit requirements since the rule is superseded by District Rule 4201 which is in the SIP.

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. Detailed Facility List

ATTACHMENT A

Draft Renewed Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: C-535-0-2

EXPIRATION DATE: 01/31/2006

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 and Fresno County Rule 110] 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 and Fresno County Rule 110] 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.

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: Fresno County Rules 110, 201, 202, 203, 204, 208, 209, 401, and 423. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. {4401} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. Should the facility, as defined in 40 CFR 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 CFR 68.10. The facility shall certify compliance as part of the annual certification as required by 40 CFR Part 70. [40 CFR Part 68] Federally Enforceable Through Title V Permit
43. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin March 23 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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

DRAFT

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-6-4

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

16.7 MMBTU/HR CLEAVER-BROOKS MODEL CBI-700-400 DIGESTER GAS-FIRED BOILER WITH AN ALZETA MODEL CSB167R ULTRA LOW NOX BURNER

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO₂. [District Rules 4201 and 4301, 5.1] Federally Enforceable Through Title V Permit
3. The boiler shall only be fired on digester gas except pilot light which shall be fueled with PUC natural gas. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Emissions from the boiler shall not exceed any of the following limits: 15 ppmvd NO_x @ 3% O₂ or 0.018 lb-NO_x/MMBtu, 0.0482 lb-SO_x/MMBtu, 0.0048 lb-PM₁₀/MMBtu, 100 ppmvd CO @ 3% O₂ or 0.061 lb-CO/MMBtu, or 0.004 lb-VOC/MMBtu. [District NSR Rule, 4305, and 4306] Federally Enforceable Through Title V Permit
5. Digester gas fuel consumption shall not exceed 730,400 cubic feet per day. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Daily testing of digester gas is required so as to not exceed an average of 200 ppm as hydrogen sulfide (H₂S). Corrections shall be made, and re-tested within three (3) hours in order to maintain average below 200 ppm. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The hydrogen sulfide content shall be tested daily except that if compliance with the hydrogen sulfide content limit has been demonstrated for 21 consecutive days, then the testing frequency shall be monthly. If a test shows noncompliance with the hydrogen sulfide content requirement, the source must return to daily testing until 21 consecutive days shows compliance. [District Rule 2520 9.3.2] Federally Enforceable Through Title V Permit
8. The sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D-1072, D-3031, D-4084, D3246, D-4810, or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. The boiler shall be equipped with an operational non-resettable, totalizing mass or volumetric flow meter in the digester gas fuel supply line. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Source testing to measure digester gas-combustion NO_x and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 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. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
12. If either the NO_x or CO concentrations corrected to 3% O₂, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100 (12/17/92), the permittee may fully comply with Rule 1100 (12/17/92) in lieu of the performing the notification and testing required by this condition. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
13. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken 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. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 3% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
15. 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 (10/16/08). [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
16. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081(12/16/93). [District Rule 1081] Federally Enforceable Through Title V Permit
17. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305 and 4306] 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. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
20. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
21. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
22. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 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.

23. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
24. Records of daily fuel consumption and daily sulfur testing results shall be maintained. [District Rules 1070 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. 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 1070, 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: C-535-9-3

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

36.3 MMBTU/HR JOHN ZINK COMPANY WASTE GAS FLARE

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PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
2. The flare shall be operated in a manner preventing the emission of noxious odors or other nuisances. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201] Federally Enforceable Through Title V Permit
4. The waste gas flare system shall be specifically designed for burning wastewater treatment plant digester gas, and alternate fuel may be used as pilot fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The flare shall be equipped and operated with a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame. [District Rule 4311, 5.4] Federally Enforceable Through Title V Permit
6. The flare system shall have continuous readout and recording of gas flow rate and stack temperature. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Flare flue gas temperature shall be maintained to at least 1,400 °F and 0.6 seconds minimum residence time. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Total volume of gaseous fuel flared shall not exceed 1,584,000 scf per day. [District NSR Rule] Federally Enforceable Through Title V Permit
9. A flame shall be present at all times in the flare whenever combustible gases are vented through the flare. [District Rule 4311, 5.2] Federally Enforceable Through Title V Permit
10. The flare shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311, 5.3] Federally Enforceable Through Title V Permit
11. Daily testing of digester gas is required so as to not exceed an average of 200 ppm as hydrogen sulfide (H₂S). Corrections shall be made, and re-tested within 3 hours in order to maintain average below 200 ppm. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Emissions shall not exceed any of the following limits: 0.18 lb PM₁₀/hr, 1.8 lb SO_x/hr, 2.2 lb NO_x/hr, or 10.5 lb CO/hr. [District NSR Rule and Rule 4311, 5.7] Federally Enforceable Through Title V Permit
13. VOC emissions shall not exceed 0.0027 lb-VOC/MMBtu. [District NSR Rule and Rule 4311, 5.7] Federally Enforceable Through Title V Permit
14. Source testing to measure digester gas-combustion NO_x and VOC emissions from this unit shall be conducted at least once every twelve (12) months. [District Rule 4311, 6.1.2] Federally Enforceable Through Title V Permit

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

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15. The results of each source test shall be submitted to the District within 45 days thereafter. [District Rule 4311, 6.1.2] Federally Enforceable Through Title V Permit
16. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rules 1081 and 4311]
17. VOC emissions for source test purposes, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case Method 25a may be used, and analysis of halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422 "Determination of Volatile organic Compounds in Emission from Stationary Sources". [District Rule 4311, 6.3.1] Federally Enforceable Through Title V Permit
18. NOx emissions for source test purposes, in pounds per million Btu, shall be determined by using EPA Method 19. [District Rule 4311, 6.3.2] Federally Enforceable Through Title V Permit
19. NOx and O2 concentrations shall be determined by using EPA Method 3A, EPA Method 7E, or ARB 100. [District Rule 4311, 6.3.3] Federally Enforceable Through Title V Permit
20. The sulfur content of gas being flared shall be determined using ASTM D-1072, D-3031, D-4084, D 3246, D-4810, or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. This flare shall be inspected annually while in operation for visible emissions. If visible emissions are observed, corrective action shall be taken. If excess emissions continue, a EPA Method 9 test shall be conducted within 72 hours. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Daily records of total gas flared shall be maintained. [District NSR Rule and 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of flare maintenance, inspections and repair shall be maintained. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. Records of daily sulfur testing results shall be maintained. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. Records of all source tests shall be maintained. [District Rule 4311, 6.2] 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 1070 and 4311] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-10-2

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

2518 BHP CATERPILLAR MODEL 3516 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 1750 KW ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Fresno County Rule 406] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District NSR Rule, 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
6. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The engine shall be equipped with a turbocharger and with an aftercooler or intercooler. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
9. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District NSR Rule, 4701, 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
11. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
12. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit

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

13. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702] Federally Enforceable Through Title V Permit
14. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201 and Fresno County Rule 406. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
16. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 402 (Madera) and 404 (Fresno, Merced, Kern, Kings, San Joaquin, Stanislaus, Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
17. 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 Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-11-2

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

140 BHP CATERPILLAR MODEL #3116-DIT DIESEL- FIRED TURBOCHARGED EMERGENCY IC ENGINE #1
POWERING A WATER TRANSFER PUMP

PERMIT UNIT REQUIREMENTS

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Fresno County Rule 406] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 2520, 9.3.2, 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District NSR Rule, 4701, 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
7. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
8. NOx emission rate shall not exceed 6.0 g/hp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702] Federally Enforceable Through Title V Permit
13. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201 and Fresno County Rule 406. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
14. 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 Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-12-2

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

140 HP CATERPILLAR MODEL #3116-DIT DIESEL-FIRED TURBOCHARGED EMERGENCY IC ENGINE #2 SERVING A WATER TRANSFER PUMP

PERMIT UNIT REQUIREMENTS

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Fresno County Rule 406] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 2520, 9.3.2, 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District NSR Rule, 4701, 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
7. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
8. NOx emission rate shall not exceed 6.0 g/hp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702] Federally Enforceable Through Title V Permit
13. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201 and Fresno County Rule 406. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
14. 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 Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-13-2

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

150 HP ODOR CONTROL SCRUBBING SYSTEM INCLUDING THREE(3) 50 HP RJ ENVIRONMENTAL PACKED TOWER CAUSTIC SCRUBBERS EACH EQUIPPED WITH A KIMRE MIST ELIMINATOR MODEL B-GON

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Maximum design influent flow rate through headworks shall not exceed 106 MGD. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The total emissions from this operation shall not exceed 0.075 pounds VOC per MGD of influent flow. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Scrubbers shall be maintained and operated according to manufacturer's specifications. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Scrubber liquid to gas ratio shall be observed and recorded weekly during operation of this unit. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. Records of scrubber liquid to gas ratio shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. Records of daily influent flow rate through headworks shall be maintained and shall be made available for District inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. 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 Rule 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-17-2

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

455 BHP CUMMINS MODEL NTA855 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ONAN MODEL 350DFCC, 350 KW ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Fresno County Rule 406] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 4801, Fresno County Rule 406, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District NSR Rule, 4701 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Emissions shall not exceed 5.61 g NOx/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
9. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
10. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
11. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
12. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit

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

13. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702] Federally Enforceable Through Title V Permit
15. 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 Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
16. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201 and Fresno County Rule 406. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-18-3

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

3.377 MW DIGESTER/NATURAL GAS-FIRED TURBINE GENERATOR #1 WITH WATER INJECTION AND HEAT RECOVERY STEAM GENERATOR

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. {2256} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
3. The gas-fired turbines shall be fired exclusively on natural gas or a blend (combination) of natural gas and digester gas with the combination having a sulfur content of no greater than 5.6 grain of sulfur compounds (as S) per 100 dry scf. When fired on digester gas, the turbine shall use a combination of digester gas and at least 50% PUC-regulated natural gas. [District NSR Rule and 4102] Federally Enforceable Through Title V Permit
4. The owner or operator shall install, operate and maintain in calibration a system which continuously measures and records: the fuel consumption and the ratio of water to fuel being fired in the turbine. [40 CFR 60.334(a)] Federally Enforceable Through Title V Permit
5. The exhaust stack shall be equipped with a continuous emissions monitor (CEM) for NO_x, CO, and O₂. The CEMs shall meet the requirements of 40 CFR part 60, Appendices B and F and shall be capable of monitoring emissions during startups and shutdowns as well as during normal operating conditions. [District NSR Rule, 1080, 40 CFR 60.334(b), and 4703] Federally Enforceable Through Title V Permit
6. The facility shall install and maintain equipment, facilities, and systems compatible with the District's CEM data polling software system and shall make CEM data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
7. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
8. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NO_x, CO, and O₂ analyzer during District inspections. The sampling ports shall be located in accordance with the CARB policy document titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Source Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
9. Emission rates from this unit, except during thermal stabilization or reduced load periods, shall not exceed any of the following limits: NO_x (as NO₂) - 5.74 lb/hr and 25 ppmvd @ 15% O₂; SO_x (as SO₂) - 1.0 lb/hr; PM₁₀ - 1.34 lb/hr; CO - 27.95 lb/hr and 188.0 ppmvd @ 15% O₂; or VOC (as methane) - 0.02 lb/hr. [District NSR Rule, 4703, 5.1.1, 5.1.2, & 5.2; and 40 CFR 60.332(a)(2), 40 CFR 60.333(a) & (b)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. Thermal Stabilization is defined as the startup or shutdown time during which the exhaust gas is not within the normal operating temperature range, not to exceed two hours per occurrence. Reduced Load is defined as the time during which a gas turbine is operated at less than rated capacity in order to change the position of the exhaust diverter gate, not to exceed one hour. [District NSR Rule and 4703, 3.19 & 3.25] Federally Enforceable Through Title V Permit
11. Emissions from this unit (including emissions during thermal stabilization or reduced load periods), shall not exceed any of the following limits: NOx (as NO2) - 137.8 lb/day; SOx (as SO2) - 24.0 lb/day; PM10 - 32.2 lb/day; CO - 670.8 lb/day; or VOC - 0.5 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Permittee shall perform a source test to measure the NOx and CO emission concentrations and to correlate the amount of water injected to the amount of fuel consumed, to the associated measured NOx emissions levels at least once every 12 months. [District Rule 4703, 6.2.5] Federally Enforceable Through Title V Permit
13. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081, 7.1] Federally Enforceable Through Title V Permit
14. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081, 7.3] Federally Enforceable Through Title V Permit
15. When the continuous emission monitoring system (CEMS) for NOx and CO is not operating properly, and when the water-to-fuel ratio monitoring system is not operating properly, the permittee shall notify the District of the breakdown condition in accordance with Rule 1100 (Equipment Breakdown). During the breakdown relief period, the facility shall demonstrate emissions compliance by monitoring and recording hourly NOx and CO concentrations utilizing a portable analyzer that meets District specifications. The facility shall operate the portable analyzer providing data to the District for a maximum of 96 hours per breakdown occurrence. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
16. Portable analyzer readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken 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. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
17. If the NOx and/or CO concentrations, as measured by the permittee with a portable analyzer, exceed the permitted emission limits, the permittee shall notify the District and return the NOx and CO concentrations to the permitted emission limits as soon as possible but no longer than eight (8) hours after detection. If the permittee's portable analyzer readings continue to exceed the permitted emissions limits after eight (8) hours, the permittee shall notify the District within the following one (1) hour, and conduct a certified source test within 60 days to demonstrate compliance with the permitted emissions limits. In lieu of conducting a source test, the permittee may stipulate that a violation has occurred, subject to enforcement action. The permittee must correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
18. When no continuous emission monitoring data for NOx is available or when the NOx continuous emission monitoring system is not operating properly, the water-to-fuel ratio shall be maintained between the limits established during the annual source test. Operator shall perform and submit an engineering performance test to demonstrate continuous compliance with NOx emissions limits for any water injection system ratios beyond the water-to-fuel ratio range determined during the annual source test. [District NSR Rule and 1070] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

19. The following test methods shall be used: NO_x - EPA Method 7E or 20, CO - EPA Method 10 or 10B, and O₂ - EPA Method 3, 3A, or 20. NO_x test results shall be corrected to ISO standard conditions as defined in 40 CFR Part 60 Subpart GG Section 60.335. EPA approved alternative test methods as approved by the District may also be used to address the source testing requirements of this permit. The request to utilize EPA approved alternative source testing methods must be submitted in writing and written approval received from the District prior to the submission of the source test plan. [District Rules 1081, 40 CFR 60.335, and 4703, 6.4.1, 6.4.2, & 6.4.3] Federally Enforceable Through Title V Permit
20. When the unit is fired solely on PUC-regulated natural gas, maintain on file copies of the natural gas bills. [District Rule 2520, 9.3.2 and 40 CFR 60.334(h)(3)] Federally Enforceable Through Title V Permit
21. When the unit is not fired solely on PUC-regulated natural gas, the sulfur content of the fuel shall be tested weekly except that if compliance with the fuel sulfur content limit in this permit has been demonstrated for 8 consecutive weeks, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content limit in this permit, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2 and 40 CFR 60.334(i)(3)] Federally Enforceable Through Title V Permit
22. When the unit is not fired solely on PUC-regulated natural gas, the sulfur content of the fuel being fired in the turbine shall be determined using ASTM method D-1072, D-4084, D-3246 or D-4810. [District Rule 1081, 40 CFR 60.335(b)(10)] Federally Enforceable Through Title V Permit
23. When the unit is not fired solely on PUC-regulated natural gas, the operator shall submit a semiannual report listing any daily period during which the sulfur content of the fuel being fired in the turbine exceeds 0.8% by weight. [40 CFR 60.334(j)] Federally Enforceable Through Title V Permit
24. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis, the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation, type and quantity of fuel used, and percentage of PUC-quality natural gas in the gas consumed. [District NSR Rule and 4703, 6.2.6] Federally Enforceable Through Title V Permit
25. {2252} The owner or operator shall maintain records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM system that has been installed pursuant to District Rule 1080 (as amended 12/17/92), and emission measurements. [40 CFR 60.8(d) and District Rule 1080, 7.0] Federally Enforceable Through Title V Permit
26. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District NSR Rule and 4703, 6.2.4] Federally Enforceable Through Title V Permit
27. Records shall be maintained on the quality and accuracy of all instruments to verify compliance. [District Rules 1070 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
28. When no continuous emission monitoring data for NO_x is available or when the NO_x continuous emission monitoring system is not operating properly, the owner or operator shall report periods of excess emissions that are defined as follows: any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with the NO_x emission limit. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, and gas turbine load. [40 CFR 60.334(j)(1)] Federally Enforceable Through Title V Permit
29. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
30. Audits of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and total accuracy testing is performed, in accordance with EPA guidelines. The District shall be notified prior to completion of the audits. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rule 1080] Federally Enforceable Through Title V Permit

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

31. For the NO_x, CO, and O₂ CEMs, the owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F, 5.11, at least once every four calendar quarters. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. [District Rule 1080] Federally Enforceable Through Title V Permit
32. {2251} The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit
33. {2253} Operators of CEM systems installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include the following: Time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; Averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; Applicable time and date of each period during which the CEM was inoperative, except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District Rule 1080, 8.0] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-19-3

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

3.377 MW DIGESTER/NATURAL GAS-FIRED TURBINE GENERATOR #2 WITH WATER INJECTION AND HEAT RECOVERY STEAM GENERATOR

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. {2256} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
3. The gas-fired turbines shall be fired exclusively on natural gas or a blend (combination) of natural gas and digester gas with the combination having a sulfur content of no greater than 5.6 grain of sulfur compounds (as S) per 100 dry scf. When fired on digester gas, the turbine shall use a combination of digester gas and at least 50% PUC-regulated natural gas. [District NSR Rule and 4102] Federally Enforceable Through Title V Permit
4. The owner or operator shall install, operate and maintain in calibration a system which continuously measures and records: the fuel consumption and the ratio of water to fuel being fired in the turbine. [40 CFR 60.334(a)] Federally Enforceable Through Title V Permit
5. The exhaust stack shall be equipped with a continuous emissions monitor (CEM) for NO_x, CO, and O₂. The CEMs shall meet the requirements of 40 CFR part 60, Appendices B and F and shall be capable of monitoring emissions during startups and shutdowns as well as during normal operating conditions. [District NSR Rule, 1080, 40 CFR 60.334(b), and 4703] Federally Enforceable Through Title V Permit
6. The facility shall install and maintain equipment, facilities, and systems compatible with the District's CEM data polling software system and shall make CEM data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
7. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
8. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NO_x, CO, and O₂ analyzer during District inspections. The sampling ports shall be located in accordance with the CARB policy document titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Source Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
9. Emission rates from this unit, except during thermal stabilization or reduced load periods, shall not exceed any of the following limits: NO_x (as NO₂) - 5.74 lb/hr and 25 ppmvd @ 15% O₂; SO_x (as SO₂) - 1.0 lb/hr; PM₁₀ - 1.34 lb/hr; CO - 27.95 lb/hr and 188.0 ppmvd @ 15% O₂; or VOC (as methane) - 0.02 lb/hr. [District NSR Rule, 4703, 5.1.1, 5.1.2, & 5.2; and 40 CFR 60.332(a)(2), 40 CFR 60.333(a) & (b)] Federally Enforceable Through Title V Permit

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

10. Thermal Stabilization is defined as the startup or shutdown time during which the exhaust gas is not within the normal operating temperature range, not to exceed two hours per occurrence. Reduced Load is defined as the time during which a gas turbine is operated at less than rated capacity in order to change the position of the exhaust diverter gate, not to exceed one hour. [District Rules 2201 and 4703, 3.19 & 3.25] Federally Enforceable Through Title V Permit
11. Emissions from this unit (including emissions during thermal stabilization or reduced load periods), shall not exceed any of the following limits: NO_x (as NO₂) - 137.8 lb/day; SO_x (as SO₂) - 24.0 lb/day; PM₁₀ - 32.2 lb/day; CO - 670.8 lb/day; or VOC - 0.5 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Permittee shall perform a source test to measure the NO_x and CO emission concentrations and to correlate the amount of water injected to the amount of fuel consumed, to the associated measured NO_x emissions levels at least once every 12 months. [District Rule 4703, 6.2.5] Federally Enforceable Through Title V Permit
13. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081, 7.1] Federally Enforceable Through Title V Permit
14. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081, 7.3] Federally Enforceable Through Title V Permit
15. When the continuous emission monitoring system (CEMS) for NO_x and CO is not operating properly, and when the water-to-fuel ratio monitoring system is not operating properly, the permittee shall notify the District of the breakdown condition in accordance with Rule 1100 (Equipment Breakdown). During the breakdown relief period, the facility shall demonstrate emissions compliance by monitoring and recording hourly NO_x and CO concentrations utilizing a portable analyzer that meets District specifications. The facility shall operate the portable analyzer providing data to the District for a maximum of 96 hours per breakdown occurrence. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
16. Portable analyzer readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken 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. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
17. If the NO_x and/or CO concentrations, as measured by the permittee with a portable analyzer, exceed the permitted emission limits, the permittee shall notify the District and return the NO_x and CO concentrations to the permitted emission limits as soon as possible but no longer than eight (8) hours after detection. If the permittee's portable analyzer readings continue to exceed the permitted emissions limits after eight (8) hours, the permittee shall notify the District within the following one (1) hour, and conduct a certified source test within 60 days to demonstrate compliance with the permitted emissions limits. In lieu of conducting a source test, the permittee may stipulate that a violation has occurred, subject to enforcement action. The permittee must correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
18. When no continuous emission monitoring data for NO_x is available or when the NO_x continuous emission monitoring system is not operating properly, the water-to-fuel ratio shall be maintained between the limits established during the annual source test. Operator shall perform and submit an engineering performance test to demonstrate continuous compliance with NO_x emissions limits for any water injection system ratios beyond the water-to-fuel ratio range determined during the annual source test. [District NSR Rule and 1070] 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.

19. The following test methods shall be used: NO_x - EPA Method 7E or 20, CO - EPA Method 10 or 10B, and O₂ - EPA Method 3, 3A, or 20. NO_x test results shall be corrected to ISO standard conditions as defined in 40 CFR Part 60 Subpart GG Section 60.335. EPA approved alternative test methods as approved by the District may also be used to address the source testing requirements of this permit. The request to utilize EPA approved alternative source testing methods must be submitted in writing and written approval received from the District prior to the submission of the source test plan. [District Rules 1081, 40 CFR 60.335, and 4703, 6.4.1, 6.4.2, & 6.4.3] Federally Enforceable Through Title V Permit
20. When the unit is fired solely on PUC-regulated natural gas, maintain on file copies of the natural gas bills. [District Rule 2520, 9.3.2 and 40 CFR 60.334(h)(3)] Federally Enforceable Through Title V Permit
21. When the unit is not fired solely on PUC-regulated natural gas, the sulfur content of the fuel shall be tested weekly except that if compliance with the fuel sulfur content limit in this permit has been demonstrated for 8 consecutive weeks, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content limit in this permit, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2 and 40 CFR 60.334(i)(3)] Federally Enforceable Through Title V Permit
22. When the unit is not fired solely on PUC-regulated natural gas, the sulfur content of the fuel being fired in the turbine shall be determined using ASTM method D-1072, D-4084, D-3246, or D-4810. [District Rule 1081, 40 CFR 60.335(b)(10)] Federally Enforceable Through Title V Permit
23. When the unit is not fired solely on PUC-regulated natural gas, the operator shall submit a semiannual report listing any daily period during which the sulfur content of the fuel being fired in the turbine exceeds 0.8% by weight. [40 CFR 60.334(j)] Federally Enforceable Through Title V Permit
24. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis, the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation, type and quantity of fuel used, and percentage of PUC-quality natural gas in the gas consumed. [District Rules 2201, 2520, 9.4.2 and 4703, 6.2.6] Federally Enforceable Through Title V Permit
25. {2252} The owner or operator shall maintain records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM system that has been installed pursuant to District Rule 1080 (as amended 12/17/92), and emission measurements. [40 CFR 60.8(d) and District Rule 1080, 7.0] Federally Enforceable Through Title V Permit
26. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District NSR Rule and 4703, 6.2.4] Federally Enforceable Through Title V Permit
27. Records shall be maintained on the quality and accuracy of all instruments to verify compliance. [District Rules 1070 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
28. When no continuous emission monitoring data for NO_x is available or when the NO_x continuous emission monitoring system is not operating properly, the owner or operator shall report periods of excess emissions that are defined as follows: any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with the NO_x emission limit. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, and gas turbine load. [40 CFR 60.334(j)(1)] Federally Enforceable Through Title V Permit
29. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
30. Audits of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and total accuracy testing is performed, in accordance with EPA guidelines. The District shall be notified prior to completion of the audits. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rule 1080] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

31. For the NO_x, CO, and O₂ CEMs, the owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F, 5.11, at least once every four calendar quarters. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. [District Rule 1080] Federally Enforceable Through Title V Permit
32. {2251} The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit
33. {2253} Operators of CEM systems installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include the following: Time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; Averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; Applicable time and date of each period during which the CEM was inoperative, except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District Rule 1080, 8.0] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-20-2

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

158 BHP DEUTZ MODEL #BFGL913 LOW-USE DIESEL-FIRED IC ENGINE USED EXCLUSIVELY FOR TURBINE STARTUP ONLY

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Operation of the engine shall be limited to spinning-up gas-fired turbines C-535-18 or C-535-19 during startup and shall not exceed 2 hours per day or 49 hours in any one calendar year. [District NSR Rule, 4102, and 4702, 4.2.2] Federally Enforceable Through Title V Permit
3. Emissions from this IC engine shall not exceed any of the following limits: 13.46 g-NOx/bhp-hr, 0.95 g-PM10/bhp-hr, 2.90 g-CO/bhp-hr, or 1.11 g-VOC/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District NSR Rule, 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. This engine shall be equipped with an operational nonresettable elapsed time meter. [District Rule 4702, 5.7.4] Federally Enforceable Through Title V Permit
6. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702, 5.7.2] Federally Enforceable Through Title V Permit
7. During operation the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emissions control system supplier (e.g. oil pressure, exhaust gas temperature, etc.). [District Rule 4702, 5.7.3] Federally Enforceable Through Title V Permit
8. The permittee shall maintain records of hours of operation. Records shall include the date, the number of hours of operation, the type of fuel used, and records of operational characteristics monitoring. Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 4702, 6.2.3] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-21-2

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

158 BHP DEUTZ MODEL #BFG913 LOW-USE DIESEL-FIRED IC ENGINE USED EXCLUSIVELY FOR TURBINE STARTUP ONLY

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PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Operation of the engine shall be limited to spinning-up gas-fired turbines C-535-18 or C-535-19 during startup and shall not exceed 2 hours per day or 49 hours in any one calendar year. [District NSR Rule, 4102, and 4702, 4.2.2] Federally Enforceable Through Title V Permit
3. Emissions from this IC engine shall not exceed any of the following limits: 13.46 g-NOx/bhp-hr, 0.95 g-PM10/bhp-hr, 2.90 g-CO/bhp-hr, or 1.11 g-VOC/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational nonresettable elapsed time meter. [District Rule 4702, 5.7.4] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District NSR Rule, 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702, 5.7.2] Federally Enforceable Through Title V Permit
7. During operation the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emissions control system supplier (e.g. oil pressure, exhaust gas temperature, etc.). [District Rule 4702, 5.7.3] Federally Enforceable Through Title V Permit
8. The permittee shall maintain records of hours of operation. Records shall include the date, the number of hours of operation, the type of fuel used, and records of operational characteristics monitoring. Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 4702, 6.2.3] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-24-2

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

125 BHP JOHN DEERE MODEL 4045HF275 TIER 3 CERTIFIED TRANSPORTABLE DIESEL-FIRED IC ENGINE
POWERING AN AIR COMPRESSOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102]
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District NSR Rule and 4801 and 17 CCR 93116] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93116] Federally Enforceable Through Title V Permit
5. The only approved storage and operational location for this IC engine shall be Facility C-535 at 5607 W Jensen Avenue, Fresno. [District NSR Rule] Federally Enforceable Through Title V Permit
6. This transportable IC engine shall not be attached to a foundation or operated at any location at this facility for more than 12 consecutive months. The period during which the engine is maintained at a storage location shall be excluded from the residency time determination. [District Rule 4701, 40 CFR Part 89, 13 CCR 2421, and 17 CCR 93116] Federally Enforceable Through Title V Permit
7. Total annual NO_x emissions combined from the waste gas flare (C-535-9) and the transportable diesel-fired IC engine (C-535-24) shall not exceed 19,272 pounds in any calendar year. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Total annual NO_x emissions combined from the waste gas flare (C-535-9) and the transportable diesel-fired IC engine (C-535-24) shall be calculated as follows: Annual NO_x Emissions = [(1.13 x IC Engine Annual Hours of Operation (hours per year)) + (60.6 x Waste Gas Flare's Annual Fuel Combusted (MMscf per year))]. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Emissions from this IC engine shall not exceed any of the following limits: 4.10 g-NO_x/bhp-hr, 0.75 g-CO/bhp-hr, or 0.30 g-VOC/bhp-hr. [District NSR Rule and 17 CCR 93116] Federally Enforceable Through Title V Permit
10. Emissions from this IC engine shall not exceed 0.19 g-PM₁₀/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District NSR Rule, 4102, and 17 CCR 93116] Federally Enforceable Through Title V Permit
11. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
12. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit

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

13. The permittee shall maintain an engine-operating log that shall include the following: daily records of the date, location at the facility, operational time; a record of the cumulative annual hours of operation of the engine; and records of operational characteristics monitoring. [District NSR Rule and 4702] Federally Enforceable Through Title V Permit
14. 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 Rule 4702 and 17 CCR 93116] 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



Permit to Operate

FACILITY: C-535

EXPIRATION DATE: 01/31/2006

LEGAL OWNER OR OPERATOR:

FRESNO/CLOVIS REGIONAL WWTP

MAILING ADDRESS:

5607 W JENSEN AVE
FRESNO, CA 93706-9458

FACILITY LOCATION:

5607 W JENSEN AVE
FRESNO, CA 93706

FACILITY DESCRIPTION:

WASTEWATER RECLAMATION FACILITY

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

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

Sayed Sadredin

Executive Director / APCO

David Warner

Director of Permit Services

San Joaquin Valley Air Pollution Control District

FACILITY: C-535-0-1

EXPIRATION DATE: 01/31/2006

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (9/17/98). [District Rule 2010, 3.0 and 4.0; 2020; and County Rule 201 (in all eight counties in the San Joaquin Valley)] 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) (Permits Required) 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, 9.5.1] 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, 9.5.2] 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: FRESNO/CLOVIS REGIONAL WWTP
Location: 5607 W JENSEN AVE, FRESNO, CA 93706
C-535-0-1 Sep 16 2010 9:33AM - 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, 9.6.1] 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(6/15/95) [District Rules 2520, 9.6.2 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, 9.8] 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, 9.9.2] 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, 9.9.3] 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, 9.9.4] 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, 9.9.5] 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, 9.10] 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, 9.14.2.1] 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, 9.14.2.2] 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, 9.14.2.3] 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, 9.14.2.4] 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 (12/17/92), by using EPA method 9. 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 supply, sell, solicit or apply any architectural coating, except specialty coatings, that contains more than 250 grams of VOC per liter of coating (less water and exempt compounds, and excluding any colorant added to tint bases), or manufacture, blend, or repackage such coating with more than 250 grams of VOC per liter (less water and exempt compounds, and excluding any colorant added to tint bases) for use within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. No person shall apply, sell, solicit, or offer for sale any specialty architectural coating listed in the Table of Standards (District Rule 4601, Table 1 (12/17/92)), nor manufacture, blend, or repackage such coating for use within the District, which contains VOCs (less water and exempt compounds, excluding any colorant added to tint bases) in excess of the specified limits listed in Table 1 of Rule 4601 (12/17/92). [District Rule 4601, 5.2] Federally Enforceable Through Title V Permit
25. All VOC-containing materials shall be stored in closed containers when not in use. In use includes, but is not limited to: being accessed, filled, emptied, maintained or repaired. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
26. A person shall not use VOCs for the cleanup of spray equipment unless equipment for collection of the cleaning compounds and minimizing its evaporation to the atmosphere is used. [District Rule 4601, 5.5] Federally Enforceable Through Title V Permit
27. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.2 (12/17/92). [District Rule 4601, 6.1 and 6.2] Federally Enforceable Through Title V Permit
28. 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, 9.14.1 and 10.0] Federally Enforceable Through Title V Permit
29. 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
30. 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
31. Disturbances of soil related to any construction, demolition, excavation, extraction, or water mining activities shall comply with the requirements for fugitive dust control in SJVUAPCD District Rule 8020 (4/25/96) unless specifically exempted under section 4 of Rule 8020 (4/25/96). [District Rule 8020] Federally Enforceable Through Title V Permit
32. Outdoor handling and storage of any bulk material which emits dust shall comply with the requirements of SJVUAPCD Rule 8030 (4/25/96), unless specifically exempted under section 4 of Rule 8030 (4/25/96). [District Rule 8030] Federally Enforceable Through Title V Permit
33. Any paved road over 3 miles in length, and any unpaved roads over half a mile in length, constructed after December 10, 1993 shall use the design criteria and dust control measures of, and comply with the administrative requirements of, SJVUAPCD Rule 8060 (4/25/96) unless specifically exempted under section 4 of Rule 8060 (4/25/96). [District Rule 8060] Federally Enforceable Through Title V Permit
34. 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
35. 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, 9.17] 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 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
37. 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 permit shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
38. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), Rules 201, 202, 203, 204, 208, and 209 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin), Rule 410.1 (Kern), and Rule 423 (Kern, Fresno, Stanislaus, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed 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 (12/17/92); 4601, sections 5.1, 5.2, 5.4, 5.5, 6.1, and 6.2 (12/17/92); 8020 (4/25/96); 8030 (4/25/96); 8060 (4/25/96); A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
41. Should the facility, as defined in 40 CFR 68.3, become subject to part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 CFR 68.10. The facility shall certify compliance as part of the annual certification as required by 40 CFR part 70. [40 CFR Part 68] Federally Enforceable Through Title V Permit
42. On March 23, 2001, the initial Title V permit was issued, the reporting period of 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 of the end of reporting period. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-6-9

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

16.7 MMBTU/HR CLEAVER-BROOKS MODEL CBI-700-400 DIGESTER GAS-FIRED BOILER WITH AN ALZETA MODEL CSB167R ULTRA LOW NOX BURNER

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO₂. [District Rules 4201 and 4301, 5.1] Federally Enforceable Through Title V Permit
3. The boiler may only be fired on digester gas except pilot light which may be fueled with PUC natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Emissions from the boiler shall not exceed any of the following limits: 15 ppmvd NO_x @ 3% O₂ or 0.018 lb-NO_x/MMBtu, 0.0482 lb-SO_x/MMBtu, 0.0048 lb-PM₁₀/MMBtu, 100 ppmvd CO @ 3% O₂ or 0.061 lb-CO/MMBtu, or 0.004 lb-VOC/MMBtu. [District Rules 2201, 4305, and 4306] Federally Enforceable Through Title V Permit
5. Digester gas fuel consumption shall not exceed 730,400 cubic feet per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Daily testing of digester gas is required so as to not exceed an average of 200 ppm as hydrogen sulfide (H₂S). Corrections shall be made, and re-tested within three (3) hours in order to maintain average below 200 ppm. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The hydrogen sulfide content shall be tested daily except that if compliance with the hydrogen sulfide content limit has been demonstrated for 21 consecutive days, then the testing frequency shall be monthly. If a test shows noncompliance with the hydrogen sulfide content requirement, the source must return to daily testing until 21 consecutive days shows compliance. [District Rule 2520 9.3.2] Federally Enforceable Through Title V Permit
8. The sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D-1072, D-3031, D-4084, D3246, D-4810, or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. The boiler shall be equipped with an operational non-resettable, totalizing mass or volumetric flow meter in the digester gas fuel supply line. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Source testing to measure digester gas-combustion NO_x and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 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. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
12. If either the NO_x or CO concentrations corrected to 3% O₂, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
13. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken 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. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
14. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 3% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
15. 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 4305 and 4306] Federally Enforceable Through Title V Permit
16. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit
17. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305 and 4306] 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. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
20. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
21. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
22. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 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.

23. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
24. Records of daily fuel consumption and daily sulfur testing results shall be maintained. [District Rules 1070 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. 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 1070, 4305, and 4306] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-9-11

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

36.3 MMBTU/HR JOHN ZINK COMPANY WASTE GAS FLARE

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
2. The flare shall be operated in a manner preventing the emission of noxious odors or other nuisances. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201] Federally Enforceable Through Title V Permit
4. The waste gas flare system shall be specifically designed for burning wastewater treatment plant digester gas, and alternate fuel may be used as pilot fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The flare shall be equipped and operated with a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame. [District Rule 4311, 5.4] Federally Enforceable Through Title V Permit
6. The flare system shall have continuous readout and recording of gas flow rate and stack temperature. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Flare flue gas temperature shall be maintained to at least 1,400 °F and 0.6 seconds minimum residence time. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Total volume of gaseous fuel flared shall not exceed 1,584,000 scf per day. [District NSR Rule] Federally Enforceable Through Title V Permit
9. A flame shall be present at all times in the flare whenever combustible gases are vented through the flare. [District Rule 4311, 5.2] Federally Enforceable Through Title V Permit
10. The flare shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311, 5.3] Federally Enforceable Through Title V Permit
11. Daily testing of digester gas is required so as to not exceed an average of 200 ppm as hydrogen sulfide (H₂S). Corrections shall be made, and re-tested within 3 hours in order to maintain average below 200 ppm. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Emissions shall not exceed any of the following limits: 0.18 lb PM₁₀/hr, 1.8 lb SO_x/hr, 2.2 lb NO_x/hr, or 10.5 lb CO/hr. [District NSR Rule and Rule 4311, 5.7] Federally Enforceable Through Title V Permit
13. VOC emissions shall not exceed 0.0027 lb-VOC/MMBtu. [District NSR Rule and Rule 4311, 5.7] Federally Enforceable Through Title V Permit
14. Source testing to measure digester gas-combustion NO_x and VOC emissions from this unit shall be conducted at least once every twelve (12) months. [District Rule 4311, 6.1.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

15. The results of each source test shall be submitted to the District within 45 days thereafter. [District Rule 4311, 6.1.2] Federally Enforceable Through Title V Permit
16. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rules 1081 and 4311]
17. VOC emissions for source test purposes, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case Method 25a may be used, and analysis of halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422 "Determination of Volatile organic Compounds in Emission from Stationary Sources". [District Rule 4311, 6.3.1] Federally Enforceable Through Title V Permit
18. NO_x emissions for source test purposes, in pounds per million Btu, shall be determined by using EPA Method 19. [District Rule 4311, 6.3.2] Federally Enforceable Through Title V Permit
19. NO_x and O₂ concentrations shall be determined by using EPA Method 3A, EPA Method 7E, or ARB 100. [District Rule 4311, 6.3.3] Federally Enforceable Through Title V Permit
20. The sulfur content of gas being flared shall be determined using ASTM D-1072, D-3031, D-4084, D 3246, D-4810, or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. This flare shall be inspected annually while in operation for visible emissions. If visible emissions are observed, corrective action shall be taken. If excess emissions continue, a EPA Method 9 test shall be conducted within 72 hours. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Daily records of total gas flared shall be maintained. [District NSR Rule and 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of flare maintenance, inspections and repair shall be maintained. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. Records of daily sulfur testing results shall be maintained. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. Records of all source tests shall be maintained. [District Rule 4311, 6.2] 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 1070 and 4311] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-10-1

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

2518 HP CATERPILLAR MODEL 3516 EMERGENCY TURBOCHARGED DIESEL-FIRED IC ENGINE POWERING 1750 KW GENERATOR.

PERMIT UNIT REQUIREMENTS

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201; Rule 402 (Madera) and 404 (all 7 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
3. Unit shall be fired only on diesel fuel with a sulfur content of less than 0.05% by weight. [District NSR Rule, 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
4. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
5. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880-71. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
6. Records of operating hours shall be kept for units operating less than 200 hours per year. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
7. On all units which are not emergency or backup IC engines operating less than 200 hours per year, operator shall perform a source test for particulate emissions within 6 months of the initial Title V permit issuance. A source test for particulate emissions conducted within the 24 months prior to permit issuance shall be considered compliance with this testing requirement. Source testing for particulate matter shall be performed according to EPA Method 5, stack gas velocity by EPA Method 2, and the stack gas moisture content by EPA Method 4. If the initial PM test result is less than or equal to 0.06 grain/dscf, then testing shall occur not less than once every 5 years. Otherwise testing shall occur not less than once every 24 months. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
8. Test results from an engine that represents a group of engines in terms of rated brake horsepower, engine make and series, operational conditions, fuel used, and control method, shall satisfy testing requirements provided this group of engines is owned and operated by a single owner/operator. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
9. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2] Federally Enforceable Through Title V Permit

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

10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 402 (Madera) and 404 (Fresno, Merced, Kern, Kings, San Joaquin, Stanislaus, Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
12. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District NSR Rule] Federally Enforceable Through Title V Permit
13. The engine shall be equipped with a turbocharger and with an aftercooler or intercooler. [District NSR Rule] Federally Enforceable Through Title V Permit
14. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
15. The engine shall be operated only for maintenance, test, and required regulatory purposes, and during emergency situations. [District NSR Rule] Federally Enforceable Through Title V Permit
16. Operation of the engine for maintenance and testing purposes shall not exceed 200 hours per year. [District NSR Rule] Federally Enforceable Through Title V Permit
17. The permittee shall maintain records of hours of operation and of the sulfur content of the diesel fuel used and shall make such records readily available to District staff upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
18. If engine operates with visible emissions greater than 1/2 Ringelmann or 10% opacity, compliance with particulate matter emissions shall be conducted by District-witnessed sample collection within 60 days of District determination. [District Rule 1081] Federally Enforceable Through Title V Permit
19. 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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-11-1

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

140 HP CATERPILLAR MODEL #3116-DIT EMERGENCY TURBOCHARGED DIESEL FIRED IC ENGINE #1 SERVING A WATER TRANSFER PUMP.

PERMIT UNIT REQUIREMENTS

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201; Rule 402 (Madera) and 404 (all 7 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
3. Unit shall be fired only on diesel fuel with a sulfur content of less than 0.05% by weight. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
4. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
5. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880-71. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
6. Records of operating hours shall be kept for units operating less than 200 hours per year. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
7. On all units which are not emergency or backup IC engines operating less than 200 hours per year, operator shall perform a source test for particulate emissions within 6 months of the initial Title V permit issuance. A source test for particulate emissions conducted within the 24 months prior to permit issuance shall be considered compliance with this testing requirement. Source testing for particulate matter shall be performed according to EPA Method 5, stack gas velocity by EPA Method 2, and the stack gas moisture content by EPA Method 4. If the initial PM test result is less than or equal to 0.06 grain/dscf, then testing shall occur not less than once every 5 years. Otherwise testing shall occur not less than once every 24 months. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
8. Test results from an engine that represents a group of engines in terms of rated brake horsepower, engine make and series, operational conditions, fuel used, and control method, shall satisfy testing requirements provided this group of engines is owned and operated by a single owner/operator. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
9. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2] Federally Enforceable Through Title V Permit

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

10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 402 (Madera) and 404 (Fresno, Merced, Kern, Kings, San Joaquin, Stanislaus, Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
12. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
13. This engine shall be operated only for maintenance testing, and required regulatory purposes, and during emergency situations. [District NSR Rule] Federally Enforceable Through Title V Permit
14. Operation of the engine for maintenance and testing purposes shall not exceed 200 hours per year. [District NSR Rule] Federally Enforceable Through Title V Permit
15. Records of hours of emergency and non emergency operation and of the sulfur content of the diesel fuel used shall be maintained, retained on the premises for a period of five years and made available for District inspection upon request. [District Rules 1070 and 2520, 9.5.2] Federally Enforceable Through Title V Permit
16. If engine operates with visible emissions greater than 1/2 Ringelmann or 10% opacity, compliance with particulate matter emissions shall be conducted by District-witnessed sample collection within 60 days of District determination. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. 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
18. NOx emission rate shall not exceed 6.0 g/hp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-12-1

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

140 HP CATERPILLAR MODEL #3116-DIT EMERGENCY TURBOCHARGED DIESEL FIRED IC ENGINE #2 SERVING A WATER TRANSFER PUMP.

PERMIT UNIT REQUIREMENTS

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201; Rule 402 (Madera) and 404 (all 7 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
3. Unit shall be fired only on diesel fuel with a sulfur content of less than 0.05% by weight. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
4. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
5. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880-71. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
6. Records of operating hours shall be kept for units operating less than 200 hours per year. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
7. On all units which are not emergency or backup IC engines operating less than 200 hours per year, operator shall perform a source test for particulate emissions within 6 months of the initial Title V permit issuance. A source test for particulate emissions conducted within the 24 months prior to permit issuance shall be considered compliance with this testing requirement. Source testing for particulate matter shall be performed according to EPA Method 5, stack gas velocity by EPA Method 2, and the stack gas moisture content by EPA Method 4. If the initial PM test result is less than or equal to 0.06 grain/dscf, then testing shall occur not less than once every 5 years. Otherwise testing shall occur not less than once every 24 months. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
8. Test results from an engine that represents a group of engines in terms of rated brake horsepower, engine make and series, operational conditions, fuel used, and control method, shall satisfy testing requirements provided this group of engines is owned and operated by a single owner/operator. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
9. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 402 (Madera) and 404 (Fresno, Merced, Kern, Kings, San Joaquin, Stanislaus, Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
12. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
13. This engine shall be operated only for maintenance testing, and required regulatory purposes, and during emergency situations. [District NSR Rule] Federally Enforceable Through Title V Permit
14. Operation of the engine for maintenance and testing purposes shall not exceed 200 hours per year. [District NSR Rule] Federally Enforceable Through Title V Permit
15. Records of hours of emergency and non emergency operation and of the sulfur content of the diesel fuel used shall be maintained, retained on the premises for a period of five years and made available for District inspection upon request. [District Rules 1070 and 2520, 9.5.2] Federally Enforceable Through Title V Permit
16. If engine operates with visible emissions greater than 1/2 Ringelmann or 10% opacity, compliance with particulate matter emissions shall be conducted by District-witnessed sample collection within 60 days of District determination. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. 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
18. NOx emission rate shall not exceed 6.0 g/hp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-13-4

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

150 HP ODOR CONTROL SCRUBBING SYSTEM INCLUDING THREE(3) 50 HP RJ ENVIRONMENTAL PACKED TOWER CAUSTIC SCRUBBERS EACH EQUIPPED WITH A KIMRE MIST ELIMINATOR MODEL B-GON

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Maximum design influent flow rate through headworks shall not exceed 106 MGD. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The total emissions from this operation shall not exceed 0.075 pounds VOC per MGD of influent flow. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Scrubbers shall be maintained and operated according to manufacturer's specifications. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Scrubber liquid to gas ratio shall be observed and recorded weekly during operation of this unit. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. Records of scrubber liquid to gas ratio shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. Records of daily influent flow rate through headworks shall be maintained and shall be made available for District inspection upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. 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 Rule 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-17-1

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

455 HP CUMMINS MODEL NTA855 EMERGENCY DIESEL-FIRED IC ENGINE POWERING AN ONAN MODEL 350DFCC, 350 KW EMERGENCY GENERATOR SET.

PERMIT UNIT REQUIREMENTS

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201; Rule 402 (Madera) and 404 (all 7 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
3. Unit shall be fired only on diesel fuel with a sulfur content of less than 0.05% by weight. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
4. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
5. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880-71. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
6. Records of operating hours shall be kept for units operating less than 200 hours per year. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
7. On all units which are not emergency or backup IC engines operating less than 200 hours per year, operator shall perform a source test for particulate emissions within 6 months of the initial Title V permit issuance. A source test for particulate emissions conducted within the 24 months prior to permit issuance shall be considered compliance with this testing requirement. Source testing for particulate matter shall be performed according to EPA Method 5, stack gas velocity by EPA Method 2, and the stack gas moisture content by EPA Method 4. If the initial PM test result is less than or equal to 0.06 grain/dscf, then testing shall occur not less than once every 5 years. Otherwise testing shall occur not less than once every 24 months. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
8. Test results from an engine that represents a group of engines in terms of rated brake horsepower, engine make and series, operational conditions, fuel used, and control method, shall satisfy testing requirements provided this group of engines is owned and operated by a single owner/operator. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
9. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2] Federally Enforceable Through Title V Permit

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

10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 402 (Madera) and 404 (Fresno, Merced, Kern, Kings, San Joaquin, Stanislaus, Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
12. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Emissions shall not exceed 5.61 g NOx/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
14. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
15. The engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes, shall not exceed 200 hours per year. [District NSR Rule and District Rule 4701] Federally Enforceable Through Title V Permit
16. The permittee shall maintain records of hours of non-emergency operation and of the sulfur content of the diesel fuel used. Such records shall be made available for District inspection upon request for a period of five years. [District Rules 1070 and 2520, 9.5.2] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-18-7

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

3.377 MW DIGESTER/NATURAL GAS-FIRED TURBINE GENERATOR #1 WITH WATER INJECTION AND HEAT RECOVERY STEAM GENERATOR

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
4. 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, 5.1] Federally Enforceable Through Title V Permit
5. The gas-fired turbines shall be fired exclusively on natural gas or a blend (combination) of natural gas and digester gas with the combination having a sulfur content of no greater than 5.6 grain of sulfur compounds (as S) per 100 dry scf. When fired on digester gas, the turbine shall use a combination of digester gas and at least 50% PUC-regulated natural gas. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
6. The owner or operator shall install, operate and maintain in calibration a system which continuously measures and records: the fuel consumption and the ratio of water to fuel being fired in the turbine. [40 CFR 60.334(a)] Federally Enforceable Through Title V Permit
7. The exhaust stack shall be equipped with a continuous emissions monitor (CEM) for NO_x, CO, and O₂. The CEMs shall meet the requirements of 40 CFR part 60, Appendices B and F and shall be capable of monitoring emissions during startups and shutdowns as well as during normal operating conditions. [District Rules 1080, 2201, 4001, and 4703] Federally Enforceable Through Title V Permit
8. The facility shall install and maintain equipment, facilities, and systems compatible with the District's CEM data polling software system and shall make CEM data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
9. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
10. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NO_x, CO, and O₂ analyzer during District inspections. The sampling ports shall be located in accordance with the CARB policy document titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Source Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. Emission rates from this unit, except during thermal stabilization or reduced load periods, shall not exceed any of the following limits: NO_x (as NO₂) - 5.74 lb/hr and 25 ppmvd @ 15% O₂; SO_x (as SO₂) - 1.0 lb/hr; PM₁₀ - 1.34 lb/hr; CO - 27.95 lb/hr and 188.0 ppmvd @ 15% O₂; or VOC (as methane) - 0.02 lb/hr. [District Rules 2201 and 4703, 5.1.1, 5.1.2, & 5.2; and 40 CFR 60.332(a)(2), 40 CFR 60.333(a) & (b)] Federally Enforceable Through Title V Permit
12. Thermal Stabilization is defined as the startup or shutdown time during which the exhaust gas is not within the normal operating temperature range, not to exceed two hours per occurrence. Reduced Load is defined as the time during which a gas turbine is operated at less than rated capacity in order to change the position of the exhaust diverter gate, not to exceed one hour. [District Rules 2201 and 4703, 3.19 & 3.25] Federally Enforceable Through Title V Permit
13. Emissions from this unit (including emissions during thermal stabilization or reduced load periods), shall not exceed any of the following limits: NO_x (as NO₂) - 137.8 lb/day; SO_x (as SO₂) - 24.0 lb/day; PM₁₀ - 32.2 lb/day; CO - 670.8 lb/day; or VOC - 0.5 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Permittee shall perform a source test to measure the NO_x and CO emission concentrations and to correlate the amount of water injected to the amount of fuel consumed, to the associated measured NO_x emissions levels at least once every 12 months. [District Rule 4703, 6.3.1] Federally Enforceable Through Title V Permit
15. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081, 7.1] 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, 7.3] Federally Enforceable Through Title V Permit
17. When the continuous emission monitoring system (CEMS) for NO_x and CO is not operating properly, and when the water-to-fuel ratio monitoring system is not operating properly, the permittee shall notify the District of the breakdown condition in accordance with Rule 1100 (Equipment Breakdown). During the breakdown relief period, the facility shall demonstrate emissions compliance by monitoring and recording hourly NO_x and CO concentrations utilizing a portable analyzer that meets District specifications. The facility shall operate the portable analyzer providing data to the District for a maximum of 96 hours per breakdown occurrence. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
18. Portable analyzer readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken 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. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
19. If the NO_x and/or CO concentrations, as measured by the permittee with a portable analyzer, exceed the permitted emission limits, the permittee shall notify the District and return the NO_x and CO concentrations to the permitted emission limits as soon as possible but no longer than eight (8) hours after detection. If the permittee's portable analyzer readings continue to exceed the permitted emissions limits after eight (8) hours, the permittee shall notify the District within the following one (1) hour, and conduct a certified source test within 60 days to demonstrate compliance with the permitted emissions limits. In lieu of conducting a source test, the permittee may stipulate that a violation has occurred, subject to enforcement action. The permittee must correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
20. When no continuous emission monitoring data for NO_x is available or when the NO_x continuous emission monitoring system is not operating properly, the water-to-fuel ratio shall be maintained between the limits established during the annual source test. Operator shall perform and submit an engineering performance test to demonstrate continuous compliance with NO_x emissions limits for any water injection system ratios beyond the water-to-fuel ratio range determined during the annual source test. [District Rules 1070, 2201, and 2520, 9.3.2] Federally Enforceable Through Title V Permit

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

21. The following test methods shall be used: NO_x - EPA Method 7E or 20, CO - EPA Method 10 or 10B, and O₂ - EPA Method 3, 3A, or 20. NO_x test results shall be corrected to ISO standard conditions as defined in 40 CFR Part 60 Subpart GG Section 60.335. EPA approved alternative test methods as approved by the District may also be used to address the source testing requirements of this permit. The request to utilize EPA approved alternative source testing methods must be submitted in writing and written approval received from the District prior to the submission of the source test plan. [District Rules 1081, 4001, and 4703, 6.4.1, 6.4.2, & 6.4.3] Federally Enforceable Through Title V Permit
22. When the unit is fired solely on PUC-regulated natural gas, maintain on file copies of the natural gas bills. [District Rule 2520, 9.3.2 and 40 CFR 60.334(b)(2)] Federally Enforceable Through Title V Permit
23. When the unit is not fired solely on PUC-regulated natural gas, the sulfur content of the fuel shall be tested weekly except that if compliance with the fuel sulfur content limit in this permit has been demonstrated for 8 consecutive weeks, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content limit in this permit, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2 and 40 CFR 60.334(b)(2)] Federally Enforceable Through Title V Permit
24. When the unit is not fired solely on PUC-regulated natural gas, the sulfur content of the fuel being fired in the turbine shall be determined using ASTM method D-1072, D-4084, D-3246, or D-4810. [District Rule 1081, 40 CFR 60.335(d)] Federally Enforceable Through Title V Permit
25. When the unit is not fired solely on PUC-regulated natural gas, the operator shall submit a semiannual report listing any daily period during which the sulfur content of the fuel being fired in the turbine exceeds 0.8% by weight. [40 CFR 60.334(c)(2.)] Federally Enforceable Through Title V Permit
26. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis, the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation, type and quantity of fuel used, and percentage of PUC-quality natural gas in the gas consumed. [District Rules 2201, 2520, 9.4.2 and 4703, 6.2.6] Federally Enforceable Through Title V Permit
27. The owner or operator shall maintain records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM system that has been installed pursuant to District Rule 1080 (as amended 12/17/92), and emission measurements. [40 CFR 60.8(d) and District Rule 1080, 7.0] Federally Enforceable Through Title V Permit
28. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 2201, 2520, 9.4.2, and 4703, 6.2.4] Federally Enforceable Through Title V Permit
29. Records shall be maintained on the quality and accuracy of all instruments to verify compliance. [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
30. When no continuous emission monitoring data for NO_x is available or when the NO_x continuous emission monitoring system is not operating properly, the owner or operator shall report periods of excess emissions that are defined as follows: any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with the NO_x emission limit. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, and gas turbine load. [40 CFR 60.334(c)(1)] Federally Enforceable Through Title V Permit
31. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
32. Audits of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and total accuracy testing is performed, in accordance with EPA guidelines. The District shall be notified prior to completion of the audits. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rule 1080] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

33. For the NO_x, CO, and O₂ CEMs, the owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F, 5.11, at least once every four calendar quarters. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. [District Rule 1080] Federally Enforceable Through Title V Permit
34. The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit
35. Operators of CEM systems installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include the following: Time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; Averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; Applicable time and date of each period during which the CEM was inoperative, except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District Rule 1080, 8.0] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-19-7

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

3.377 MW DIGESTER/NATURAL GAS-FIRED TURBINE GENERATOR #2 WITH WATER INJECTION AND HEAT RECOVERY STEAM GENERATOR

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
4. 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, 5.1] Federally Enforceable Through Title V Permit
5. The gas-fired turbines shall be fired exclusively on natural gas or a blend (combination) of natural gas and digester gas with the combination having a sulfur content of no greater than 5.6 grain of sulfur compounds (as S) per 100 dry scf. When fired on digester gas, the turbine shall use a combination of digester gas and at least 50% PUC-regulated natural gas. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
6. The owner or operator shall install, operate and maintain in calibration a system which continuously measures and records: the fuel consumption and the ratio of water to fuel being fired in the turbine. [40 CFR 60.334(a)] Federally Enforceable Through Title V Permit
7. The exhaust stack shall be equipped with a continuous emissions monitor (CEM) for NO_x, CO, and O₂. The CEMs shall meet the requirements of 40 CFR part 60, Appendices B and F and shall be capable of monitoring emissions during startups and shutdowns as well as during normal operating conditions. [District Rules 1080, 2201, 4001, and 4703] Federally Enforceable Through Title V Permit
8. The facility shall install and maintain equipment, facilities, and systems compatible with the District's CEM data polling software system and shall make CEM data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
9. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
10. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NO_x, CO, and O₂ analyzer during District inspections. The sampling ports shall be located in accordance with the CARB policy document titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Source Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. Emission rates from this unit, except during thermal stabilization or reduced load periods, shall not exceed any of the following limits: NO_x (as NO₂) - 5.74 lb/hr and 25 ppmvd @ 15% O₂; SO_x (as SO₂) - 1.0 lb/hr; PM₁₀ - 1.34 lb/hr; CO - 27.95 lb/hr and 188.0 ppmvd @ 15% O₂; or VOC (as methane) - 0.02 lb/hr. [District Rules 2201 and 4703, 5.1.1, 5.1.2, & 5.2; and 40 CFR 60.332(a)(2), 40 CFR 60.333(a) & (b)] Federally Enforceable Through Title V Permit
12. Thermal Stabilization is defined as the startup or shutdown time during which the exhaust gas is not within the normal operating temperature range, not to exceed two hours per occurrence. Reduced Load is defined as the time during which a gas turbine is operated at less than rated capacity in order to change the position of the exhaust diverter gate, not to exceed one hour. [District Rules 2201 and 4703, 3.19 & 3.25] Federally Enforceable Through Title V Permit
13. Emissions from this unit (including emissions during thermal stabilization or reduced load periods), shall not exceed any of the following limits: NO_x (as NO₂) - 137.8 lb/day; SO_x (as SO₂) - 24.0 lb/day; PM₁₀ - 32.2 lb/day; CO - 670.8 lb/day; or VOC - 0.5 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Permittee shall perform a source test to measure the NO_x and CO emission concentrations and to correlate the amount of water injected to the amount of fuel consumed, to the associated measured NO_x emissions levels at least once every 12 months. [District Rule 4703, 6.3.1] Federally Enforceable Through Title V Permit
15. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081, 7.1] 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, 7.3] Federally Enforceable Through Title V Permit
17. When the continuous emission monitoring system (CEMS) for NO_x and CO is not operating properly, and when the water-to-fuel ratio monitoring system is not operating properly, the permittee shall notify the District of the breakdown condition in accordance with Rule 1100 (Equipment Breakdown). During the breakdown relief period, the facility shall demonstrate emissions compliance by monitoring and recording hourly NO_x and CO concentrations utilizing a portable analyzer that meets District specifications. The facility shall operate the portable analyzer providing data to the District for a maximum of 96 hours per breakdown occurrence. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
18. Portable analyzer readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken 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. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
19. If the NO_x and/or CO concentrations, as measured by the permittee with a portable analyzer, exceed the permitted emission limits, the permittee shall notify the District and return the NO_x and CO concentrations to the permitted emission limits as soon as possible but no longer than eight (8) hours after detection. If the permittee's portable analyzer readings continue to exceed the permitted emissions limits after eight (8) hours, the permittee shall notify the District within the following one (1) hour, and conduct a certified source test within 60 days to demonstrate compliance with the permitted emissions limits. In lieu of conducting a source test, the permittee may stipulate that a violation has occurred, subject to enforcement action. The permittee must correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
20. When no continuous emission monitoring data for NO_x is available or when the NO_x continuous emission monitoring system is not operating properly, the water-to-fuel ratio shall be maintained between the limits established during the annual source test. Operator shall perform and submit an engineering performance test to demonstrate continuous compliance with NO_x emissions limits for any water injection system ratios beyond the water-to-fuel ratio range determined during the annual source test. [District Rules 1070, 2201, and 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

21. The following test methods shall be used: NOx - EPA Method 7E or 20, CO - EPA Method 10 or 10B, and O2 - EPA Method 3, 3A, or 20. NOx test results shall be corrected to ISO standard conditions as defined in 40 CFR Part 60 Subpart GG Section 60.335. EPA approved alternative test methods as approved by the District may also be used to address the source testing requirements of this permit. The request to utilize EPA approved alternative source testing methods must be submitted in writing and written approval received from the District prior to the submission of the source test plan. [District Rules 1081, 4001, and 4703, 6.4.1, 6.4.2, & 6.4.3] Federally Enforceable Through Title V Permit
22. When the unit is fired solely on PUC-regulated natural gas, maintain on file copies of the natural gas bills. [District Rule 2520, 9.3.2 and 40 CFR 60.334(b)(2)] Federally Enforceable Through Title V Permit
23. When the unit is not fired solely on PUC-regulated natural gas, the sulfur content of the fuel shall be tested weekly except that if compliance with the fuel sulfur content limit in this permit has been demonstrated for 8 consecutive weeks, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content limit in this permit, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2 and 40 CFR 60.334(b)(2)] Federally Enforceable Through Title V Permit
24. When the unit is not fired solely on PUC-regulated natural gas, the sulfur content of the fuel being fired in the turbine shall be determined using ASTM method D-1072, D-4084, D-3246, or D-4810. [District Rule 1081, 40 CFR 60.335(d)] Federally Enforceable Through Title V Permit
25. When the unit is not fired solely on PUC-regulated natural gas, the operator shall submit a semiannual report listing any daily period during which the sulfur content of the fuel being fired in the turbine exceeds 0.8% by weight. [40 CFR 60.334(c)(2)] Federally Enforceable Through Title V Permit
26. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis, the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation, type and quantity of fuel used, and percentage of PUC-quality natural gas in the gas consumed. [District Rules 2201, 2520, 9.4.2 and 4703, 6.2.6] Federally Enforceable Through Title V Permit
27. The owner or operator shall maintain records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM system that has been installed pursuant to District Rule 1080 (as amended 12/17/92), and emission measurements. [40 CFR 60.8(d) and District Rule 1080, 7.0] Federally Enforceable Through Title V Permit
28. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 2201, 2520, 9.4.2, and 4703, 6.2.4] Federally Enforceable Through Title V Permit
29. Records shall be maintained on the quality and accuracy of all instruments to verify compliance. [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
30. When no continuous emission monitoring data for NOx is available or when the NOx continuous emission monitoring system is not operating properly, the owner or operator shall report periods of excess emissions that are defined as follows: any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with the NOx emission limit. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, and gas turbine load. [40 CFR 60.334(c)(1)] Federally Enforceable Through Title V Permit
31. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
32. Audits of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and total accuracy testing is performed, in accordance with EPA guidelines. The District shall be notified prior to completion of the audits. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rule 1080] Federally Enforceable Through Title V Permit

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

33. For the NO_x, CO, and O₂ CEMs, the owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F, 5.11, at least once every four calendar quarters. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. [District Rule 1080] Federally Enforceable Through Title V Permit
34. The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit
35. Operators of CEM systems installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include the following: Time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; Averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; Applicable time and date of each period during which the CEM was inoperative, except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District Rule 1080, 8.0] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-20-1

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

158 BHP DEUTZ MODEL #BFGL913 LOW-USE DIESEL-FIRED IC ENGINE USED EXCLUSIVELY FOR TURBINE STARTUP ONLY

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. 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
4. Operation of the engine shall be limited to spinning-up gas-fired turbines C-535-18 or C-535-19 during startup and shall not exceed 2 hours per day or 49 hours in any one calendar year. [District Rules 2201, 4102, 4701, and 4702] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 13.46 g-NO_x/bhp-hr, 0.95 g-PM₁₀/bhp-hr, 2.90 g-CO/bhp-hr, or 1.11 g-VOC/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This engine shall be equipped with an operational nonresettable elapsed time meter. [District Rule 4702, 5.7.4] Federally Enforceable Through Title V Permit
7. Only CARB certified diesel fuel containing not more than 0.05% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. Effective on and after June 1, 2006, this engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702, 5.7] Federally Enforceable Through Title V Permit
9. Effective on and after June 1, 2006, during operation the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emissions control system supplier (e.g. oil pressure, exhaust gas temperature, etc.). [District Rule 4702, 5.7] Federally Enforceable Through Title V Permit
10. Effective on and after June 1, 2006, the permittee shall maintain records of hours of operation. Records shall include the date, the number of hours of operation, the type of fuel used, and records of operational characteristics monitoring. Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. The permittee shall maintain records of hours of operation and of the sulfur content of the diesel fuel used. Such records shall be made available for District inspection upon request for a period of two years. [District Rules 2201 and 1070] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-21-1

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

158 BHP DEUTZ MODEL #BFGL913 LOW-USE DIESEL-FIRED IC ENGINE USED EXCLUSIVELY FOR TURBINE STARTUP ONLY

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. 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
4. Operation of the engine shall be limited to spinning-up gas-fired turbines C-535-18 or C-535-19 during startup and shall not exceed 2 hours per day or 49 hours in any one calendar year. [District Rules 2201, 4102, 4701, and 4702] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 13.46 g-NO_x/bhp-hr, 0.95 g-PM₁₀/bhp-hr, 2.90 g-CO/bhp-hr, or 1.11 g-VOC/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This engine shall be equipped with an operational nonresettable elapsed time meter. [District Rule 4702, 5.7.4] Federally Enforceable Through Title V Permit
7. Only CARB certified diesel fuel containing not more than 0.05% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. Effective on and after June 1, 2006, this engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702, 5.7] Federally Enforceable Through Title V Permit
9. Effective on and after June 1, 2006, during operation the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emissions control system supplier (e.g. oil pressure, exhaust gas temperature, etc.). [District Rule 4702, 5.7] Federally Enforceable Through Title V Permit
10. Effective on and after June 1, 2006, the permittee shall maintain records of hours of operation. Records shall include the date, the number of hours of operation, the type of fuel used, and records of operational characteristics monitoring. Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. The permittee shall maintain records of hours of operation and of the sulfur content of the diesel fuel used. Such records shall be made available for District inspection upon request for a period of two years. [District Rules 2201 and 1070] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-24-1

EXPIRATION DATE: 01/31/2006

EQUIPMENT DESCRIPTION:

125 BHP JOHN DEERE MODEL 4045HF275 TIER 3 CERTIFIED TRANSPORTABLE DIESEL-FIRED IC ENGINE
POWERING AN AIR COMPRESSOR

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. 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
4. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102]
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93116] Federally Enforceable Through Title V Permit
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93116] Federally Enforceable Through Title V Permit
7. The only approved storage and operational location for this IC engine shall be Facility C-535 at 5607 W Jensen Avenue, Fresno. [District Rule 2201] Federally Enforceable Through Title V Permit
8. This transportable IC engine shall not be attached to a foundation or operated at any location at this facility for more than 12 consecutive months. The period during which the engine is maintained at a storage location shall be excluded from the residency time determination. [District Rule 4701, 40 CFR Part 89, 13 CCR 2421, and 17 CCR 93116] Federally Enforceable Through Title V Permit
9. Total annual NOx emissions combined from the waste gas flare (C-535-9) and the transportable diesel-fired IC engine (C-535-24) shall not exceed 19,272 pounds in any calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Total annual NOx emissions combined from the waste gas flare (C-535-9) and the transportable diesel-fired IC engine (C-535-24) shall be calculated as follows: Annual NOx Emissions = [(1.13 x IC Engine Annual Hours of Operation (hours per year)) + (60.6 x Waste Gas Flare's Annual Fuel Combusted (MMscf per year))]. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Emissions from this IC engine shall not exceed any of the following limits: 4.10 g-NOx/bhp-hr, 0.75 g-CO/bhp-hr, or 0.30 g-VOC/bhp-hr. [District Rule 2201 and 17 CCR 93116] Federally Enforceable Through Title V Permit
12. Emissions from this IC engine shall not exceed 0.19 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 17 CCR 93116] Federally Enforceable Through Title V Permit
13. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
15. The permittee shall maintain an engine-operating log that shall include the following: daily records of the date, location at the facility, operational time; a record of the cumulative annual hours of operation of the engine; and records of operational characteristics monitoring. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
16. 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 Rule 4702 and 17 CCR 93116] Federally Enforceable Through Title V Permit

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

ATTACHMENT C

District Rule 4311 Stringency Analysis

Comparison of the latest amended version (amended June 18, 2009) of District Rule 4311 and the current SIP approved version, adopted June 20, 2002

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
APPLICABILITY		
This rule is applicable to operations involving the use of flares.	X	X
DEFINITIONS		
Air-Assisted Flare: a combustion device where forced air is injected to promote turbulence for mixing and to provide combustion air.	X	X
Air Pollution Control Officer (APCO): as defined in Rule 1020 (Definitions).		X
Air Resources Board (ARB): as defined in Rule 1020 (Definitions).		X
British Thermal Unit (Btu): the amount of heat required to raise the temperature of one pound of water from 59 °F to 60 °F at one atmosphere.		X
Calendar Day: any day starting at twelve o'clock AM and ending at 11:59 PM.		X
Coanda Effect Flare: A flare in which the high pressure flare gas flows along a curved surface inspiriting air into the gas to promote combustion.		X
Emergency: any situation or a condition arising from a sudden and reasonably unforeseeable event beyond the control of the operator. An emergency situation requires immediate corrective action to restore safe operation. A planned flaring event shall not be considered as an emergency.	X	
Emergency: any situation or a condition arising from a sudden and reasonably unforeseeable and unpreventable event beyond the control of the operator. Examples include, but are not limited to, not preventable equipment failure, natural disaster, act of war or terrorism, or external power curtailment, excluding a power curtailment due to an interruptible power service agreement from a utility. A flaring event due to improperly designed equipment, lack of preventative maintenance, careless or improper operation, operator error or willful misconduct does not qualify as an emergency. An emergency situation requires immediate corrective action to restore safe operation. A planned flaring event shall not be considered as an emergency.		X
Enclosed Flare: a flare composed of multiple gas burners that are grouped in an enclosure, and are staged to operate at a	X	X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
wide range of flow rates.		
EPA: United States Environmental Protection Agency.		X
Feasible: Capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, legal, social, and technological factors.		X
Flare: a direct combustion device in which air and all combustible gases react at the burner with the objective of complete and instantaneous oxidation of the combustible gases. Flares are used either continuously or intermittently and are not equipped with devices for fuel-air mix control or for temperature control.	X	X
Flare Event: any intentional or unintentional combustion of vent gas in a flare. The flare event ends when the flow velocity drops below 0.12 feet per second or when the operator can demonstrate that no more vent gas was combusted based upon the monitoring records of the flare water seal level and/or other parameters as approved by the APCO in the Flare Monitoring and Recording Plan. For a flare event that continues for more than one calendar day, each calendar day or venting of gases shall constitute a separate flare event.		X
Flare Gas: gas burned in a flare.	X	X
Flare Minimization Plan (FMP): a document intended to meet the requirements of Section 6.5 of this Rule.		X
Flare Monitoring System: all flare monitoring and recording equipment used for the determination of flare operating parameters. Flare monitoring and recording equipment includes, but is not limited to, sample systems, transducers, transmitters, data acquisition equipment, data recording equipment, and video monitoring equipment and video recording equipment.		X
Flexigas: a low BTU fuel gas produced by gasifying coke produced in a fluid-bed Coker. Due to the air used in the gasifying process, Flexigas is approximately 50% nitrogen.		X
Gaseous Fuel: any gases used as combustion fuel which include, but are not limited to, any natural, process, synthetic, landfill, sewage digester, or waste gases. Gaseous fuels include produced gas, pilot gas and, when burned, purge gas.	X	X
Major Source: as defined in Rule 2201 (New and Modified Stationary Source Review Rule).	X	
MMBtu: million British thermal units.		X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
Non-Assisted Flare: a combustion device without any auxiliary provision for enhancing the mixing of air into its flame. This definition does not include those flares, that by design, provide excess air at the flare tip.	X	X
Nox: any nitrogen oxide compounds	X	X
Open Flare: a vertically or horizontally oriented open pipe flare from which gases are released into the air before combustion is commenced.	X	X
Operator: includes, but not limited to, any person who owns, leases, supervises, or operates a facility.		X
Petroleum Refinery: a facility that processes petroleum, as defined in the Standard Industrial Classification Manual as Industry No. 2911, Petroleum Refining. For the purpose of this rule, all portions of the petroleum refining operation, including those at non-contiguous locations operating flares, shall be considered as one petroleum refinery.		X
Pilot: an auxiliary burner used to ignite the vent gas routed to a flare.		X
Pilot Gas: the gas used to maintain the presence of a flame for ignition of vent gases.		X
<p>Planned Flaring: a flaring operation that constitutes a designed and planned process at a source, and which would have been reasonably foreseen ahead of its actual occurrence, or is scheduled to occur. The operation of a flare for the purpose of performing equipment maintenance provided it does not exceed 200 hours per calendar year, or during compliance source testing or visible emission inspections is not considered planned flaring. Planned flaring includes, but is not limited to, the following flaring activities:</p> <ul style="list-style-type: none"> Oil or gas well tests, well related work, tests ordered by a regulatory agency. Equipment depressurization for maintenance purposes. Equipment start-up or shutdown. Flaring of gas at production sources where no gas handling, gas injection or gas transmission facilities exists. Flaring of off-specification gas (i.e. non PUC quality gas), unless the operator can demonstrate that the gas must be flared for engineering or safety reasons, e.g., under emergency. 	X	
Planned Flaring: a flaring operation that constitutes a		X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
<p>designed and planned process at a source, and which would have been reasonably foreseen ahead of its actual occurrence, or is scheduled to occur. Planned flaring includes, but is not limited to, the following flaring activities:</p> <p>Oil or gas well tests, well related work, tests ordered by a regulatory agency.</p> <p>Equipment depressurization for maintenance purposes.</p> <p>Equipment start-up or shutdown.</p> <p>Flaring of gas at production sources where no gas handling, gas injection or gas transmission facilities exists.</p> <p>Flaring of off-specification gas (i.e. non-PUC quality gas), unless the operator can demonstrate that the gas must be flared for engineering or safety reasons, e.g., under emergency.</p> <p>The operation of a flare for the purpose of performing equipment maintenance.</p>		
<p>Prevention Measure: a component, system, procedure, or program that will minimize or eliminate flaring.</p>		X
<p>Public Utilities Commission (PUC) Quality Gas: any gaseous fuel, gas containing fuel where the sulfur content is no more than one-fourth (0.25) grain of hydrogen sulfide per one hundred (100) standard cubic feet and no more than five grains of total sulfur per one hundred (100) standard cubic feet. PUC quality gas shall also mean high methane (at least 80 % by volume) gas as specified in PUC's General Order 58-A.</p>	X	X
<p>Purge Gas: Nitrogen, carbon dioxide, liquefied petroleum gas, or natural gas, any of which can be used to maintain a non-explosive mixture of gases in the flare header or provide sufficient exit velocity to prevent any regressive flame travel back into the flare header.</p>	X	X
<p>Refinery Fuel Gas: a combustible gas, which is a by-product of the refinery process.</p>		X
<p>Reportable Flaring Event: any flaring where more than 500,000 standard cubic feet of vent gas is flared per calendar day, or where sulfur oxide emissions are greater than 500 pounds per calendar day. A reportable flaring event ends when it can be demonstrated by monitoring required in Section 6.8 that the integrity of the water seal has been maintained sufficiently to prevent vent gas to the flare tip. For flares without water seals or water seal monitors as required by Section 6.8, a reportable flaring event ends when the rate of flow of vent gas falls below 0.12 feet per second.</p>		X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
Representative Sample: a sample of vent gas collected from the location as approved for flare monitoring and analyzed utilizing test methods specified in Section 6.3.4.		X
Shutdown: the procedure by which the operation of a process unit or piece of equipment is stopped due to the end of a production run, or for the purpose of performing maintenance, repair and replacement of equipment. Stoppage caused by frequent breakdown due to poor maintenance or operator error shall not be deemed a shutdown.		X
Startup: the procedure by which a process unit or piece of equipment achieves normal operational status, as indicated by such parameters as temperature, pressure, feed rate and product quality.		X
Steam-Assisted Flare: a combustion device where steam is injected into the combustion zone to promote turbulence for the mixing of the combustion air before it is introduced to the flame.		X
Thermal oxidizer: an enclosed or partially enclosed combustion device, other than a flare, that is used to oxidize combustible gases.		X
Total Organic Gases (TOG): all hydrocarbon compounds containing hydrogen and carbon with or without other chemical elements.	X	X
Turnaround: a planned activity involving shutdown and startup of one or several process units for the purpose of performing periodic maintenance, repair, replacement of equipment or installation of new equipment.		X
Vent Gas: any gas directed into a flare, excluding assisting air or steam, flare pilot gas, and any continuous purge gases.		X
Volatile Organic Compound (VOC): as defined in Rule 1020 (Definitions).	X	X
Water Seal: a liquid barrier, or seal, to prevent the passage of gas. Water seals provide a positive means of flash-back prevention in addition to enabling the upstream flare system header to operate at a slight positive pressure at all times.		X
EXEMPTIONS		
Flares operated in municipal solid waste landfills subject to the requirements of Rule 4642 (Solid Waste Disposal Sites) are exempt from this rule.	X	X
Flares that are subject to the requirements of 40 CFR 60 Subpart WWW (Standards of Performance for Municipal		

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
Waste Landfills), or Subpart Cc (Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills) are exempt from this rule.		
Except for the recordkeeping requirements in Section 6.1.4 the requirements of this rule shall not apply to any stationary source that has the potential to emit, for all processes, less than ten (10.0) tons per year of VOC and less than ten (10.0) tons per year of Nox.		X
REQUIREMENTS		
<p>The operator of any source subject to this rule shall comply with the following requirements:</p> <p>Flares that are permitted to operate only during an emergency are not subject to the requirements of Sections 5.6 and 5.7.</p> <p>The flame shall be present at all times when combustible gases are vented through the flare.</p> <p>The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares.</p>	X	X
Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, <u>or an equivalent device</u> , capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated.	X	
Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, <u>or an alternative equivalent device</u> , capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated.		X
Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging.	X	X
Open flares (air-assisted, steam-assisted, or non-assisted) in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18.	X	
Open flares (air-assisted, steam-assisted, or non-assisted) in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the		X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
provisions of 40 CFR 60.18. <u>The requirements of this section shall not apply to Coanda effect flares.</u>		
<p>Ground-level enclosed flares shall meet the following emission standards:</p> <p><u>Flares without Steam Assist</u></p> <p>Heat Release Rate: <10 MMBtu VOC limit = 0.0051 (lb/MMBtu) Nox limit = 0.0952 (lb/MMBtu)</p> <p>Heat Release Rate: 10-100 MMBtu VOC limit = 0.0027 (lb/MMBtu) Nox limit = 0.1330 (lb/MMBtu)</p> <p>Heat Release Rate: >100 MMBtu VOC limit = 0.0013 (lb/MMBtu) Nox limit = 0.5240 (lb/MMBtu)</p> <p><u>Flares with Steam Assist</u></p> <p>All Heat Release Rates VOC limit = 0.0014 (lb/MMBtu) as TOG Nox limit = 0.068 (lb/MMBtu)</p>	X	X
<p><u>Flare Minimization Plan</u></p> <p>Effective on and after July 1, 2011, flaring is prohibited unless it is consistent with an approved flare minimization plan (FMP), pursuant to Section 6.5, and all commitments listed in that plan have been met. This standard shall not apply if the APCO determines that the flaring is caused by an emergency as defined by Section 3.7 and is necessary to prevent an accident, hazard or release of vent gas directly to the atmosphere.</p>		X
<p><u>Petroleum Refinery SO₂ Performance Targets</u></p> <p>Effective on and after January 1, 2011, the operator of a petroleum refinery shall minimize sulfur dioxide flare emissions to less than 1.50 tons per million barrels of crude processing capacity, calculated as an average over one calendar year.</p> <p>Effective on and after January 1, 2017, the operator of a petroleum refinery shall minimize sulfur dioxide flare emissions to less than 0.50 tons per million barrels of crude processing capacity, calculated as an average over one calendar year.</p>		X
<p>Effective on and after July 1, 2011, the operator of a flare subject to flare minimization requirements pursuant to Section 5.8 shall monitor the vent gas flow to the flare with a flow measuring device or other parameters as specified in the Permit to Operate. The operator shall maintain records</p>		X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
pursuant to Section 6.1.7. Flares that the operator can verify, based on permit conditions, are not capable of producing reportable flare events pursuant to Section 6.2.2 shall not be required to monitor vent gas flow to the flare.		
Effective on and after July 1, 2011, the operator of a petroleum refinery or a flare with a flaring capacity equal to or greater than 50 MMBtu/hr shall monitor the flare pursuant to Sections 6.6, 6.7, 6.8, 6.9, and 6.10.		X
ADMINISTRATIVE REQUIREMENTS		
<p><u>Compliance Determination</u></p> <p>Upon request the operator of flares that are subject to Section 5.6 shall make available to the APCO the compliance determination records that demonstrate compliance with the provisions of 40 CFR 60.18, (c)(3) through (c)(5).</p> <p>The operator of ground-level enclosed flares shall conduct source testing at least once every 12 months to demonstrate compliance with Section 5.7. The operator shall submit a copy of the testing protocol to the APCO at least 30 days in advance of the scheduled testing. The operator shall submit the source test results not later than 45 days after completion of the source testing.</p> <p>For flares used during an emergency, record of the duration of flare operation, amount of gas burned, and the nature of the emergency situation.</p>	X	X
<p>Operators claiming an exemption pursuant to Section 4.3 shall record annual throughput, material usage, or other information necessary to demonstrate an exemption under that section.</p> <p>Effective on and after July 1, 2011, a copy of the approved flare minimization plan pursuant to Section 6.5.</p> <p>Effective on and after July 1, 2012, where applicable, a copy of annual reports submitted to the APCO pursuant to Section 6.2.</p> <p>Effective on and after July 1, 2011, where applicable, monitoring data collected pursuant to Sections 5.10, 6.6, 6.7, 6.8, 6.9, and 6.10.</p>		X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
<p><u>Flare Reporting</u></p> <p>Unplanned Flaring Event</p> <p>Effective on and after July 1, 2011, the operator of a flare subject to flare minimization plans pursuant to Section 5.8 of this rule shall notify the APCO of an unplanned flaring event within 24 hours after the start of the next business day or within 24 hours of their discovery, whichever ever occurs first. The notification shall include the flare source identification, the start date and time, and the end date and time.</p> <p>Reportable Flaring Event</p> <p>Effective on and after July 1, 2012, and annually thereafter, the operator of a flare subject to flare minimization plans pursuant to Section 5.8 shall submit an annual report to the APCO that summarizes all Reportable Flaring Events as defined in Section 3.0 that occurred during the previous 12 month period. The report shall be submitted within 30 days following the end of the twelve month period of the previous year. The report shall include, but is not limited to all of the following:</p> <p>The results of an investigation to determine the primary cause and contributing factors of the flaring event;</p> <p>Any prevention measures considered or implemented to prevent recurrence together with a justification for rejecting any measures that were considered but not implemented;</p> <p>If appropriate, an explanation of why the flaring was an emergency and necessary to prevent accident, hazard or release of vent gas to the atmosphere, or where, due to a regulatory mandate to vent a flare, it cannot be recovered, treated and used as a fuel gas at the facility; and</p> <p>The date, time, and duration of the flaring event.</p>		X
<p>Annual Monitoring Report</p> <p>Effective on and after July 1, 2012, and annually thereafter, the operator of a flare subject to flare monitoring requirements pursuant to Sections 5.10, 6.6, 6.7, 6.8, 6.9, and 6.10, as appropriate, shall submit an annual report to the APCO within 30 days following the end of each 12 month period. The report shall include the following:</p> <p>The total volumetric flow of vent gas in standard cubic feet for each day.</p> <p>Hydrogen sulfide content, methane content, and hydrocarbon content of vent gas composition pursuant to</p>		X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
<p>Section 6.6.</p> <p>If vent gas composition is monitored by a continuous analyzer or analyzers pursuant to Section 5.11, average total hydrocarbon content by volume, average methane content by volume, and depending upon the analytical method used pursuant to Section 6.3.4, total reduced sulfur content by volume or hydrogen sulfide content by volume of vent gas flared for each hour of the month.</p> <p>If the flow monitor used pursuant to Section 5.10 measures molecular weight, the average molecular weight for each hour of each month.</p> <p>For any pilot and purge gas used, the type of gas used, the volumetric flow for each day and for each month, and the means used to determine flow.</p> <p>Flare monitoring system downtime periods, including dates and times.</p> <p>For each day and for each month provide calculated sulfur dioxide emissions.</p> <p>A flow verification report for each flare subject to this rule. The flow verification report shall include flow verification testing pursuant to Section 6.3.5.</p>		
<p><u>Test Methods</u></p> <p>The test methods listed below shall be used to demonstrate compliance with this rule. Alternate equivalent test methods may be used provided the test methods have been approved by the APCO and EPA.</p> <p>VOC, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case Method 25a may be used, and analysis of halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422 "Determination of Volatile organic Compounds in Emission from Stationary Sources". The VOC concentration in ppmv shall be converted to pounds per million Btu (lb/MMBtu) by using the following equation:</p> $\text{VOC in lb/MMBtu} = \frac{(\text{ppmv dry}) \times (F, \text{ dscf} / \text{ MMBtu})}{(1.135 \times 10^6) \times (20.9 - \%O_2)}$ <p>Where: F = As determined by EPA Method 19</p> <p>NOx emissions in pounds per million BTU shall be determined by using EPA Method 19.</p> <p>NOx and O₂ concentrations shall be determined by using EPA Method 3A, EPA Method 7E, or ARB 100.</p>	X	X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
<p>Testing and Sampling Methods for Flare Monitoring</p> <p>Effective on and after July 1, 2011 operators subject to vent gas composition monitoring requirements pursuant to Section 6.6 shall use the following test methods as appropriate, or by an alternative method approved by the APCO, ARB and EPA:</p> <p>Total hydrocarbon content and methane content of vent gas shall be determined using ASTM Method D 1945-96, ASTM Method UOP 539-97, EPA Method 18, or EPA Method 25A or 25B,</p> <p>Hydrogen sulfide content of vent gas shall be determined using ASTM Method D 1945-96, ASTM Method UOP 539-97, ASTM Method D 4084-94, or ASTM Method D 4810-88.</p> <p>If vent gas composition is monitored with a continuous analyzer employing gas chromatography the minimum sampling frequency shall be one sample every 30 minutes.</p> <p>If vent gas composition is monitored using continuous analyzers not employing gas chromatography, the total reduced sulfur content of vent gas shall be determined by using EPA Method D4468-85.</p>		X
<p>Flow Verification Test Methods</p> <p>For purposes of the flow verification report required by Section 6.2.3.8, vent gas flow shall be determined using one or more of the following methods, or by any alternative method approved by the APCO, ARB, and EPA:</p> <p>EPA Methods 1 and 2;</p> <p>A verification method recommended by the manufacturer of the flow monitoring equipment installed pursuant to Section 5.10.</p> <p>Tracer gas dilution or velocity.</p> <p>Other flow monitors or process monitors that can provide comparison data on a vent stream that is being directed past the ultrasonic flow meter.</p>		X
<p>Flare Minimization Plan</p> <p>By July 1, 2010, the operator of a petroleum refinery flare or any flare that has a flaring capacity of greater than or equal to 5.0 MMBtu per hour shall submit a flare minimization plan (FMP) to the APCO for approval. The FMP shall include, but not be limited to:</p>		X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
<p>A description and technical specifications for each flare and associated knock-out pots, surge drums, water seals and flare gas recovery systems.</p> <p>Detailed process flow diagrams of all upstream equipment and process units venting to each flare, identifying the type and location of all control equipment.</p> <p>A description of equipment, processes, or procedures the operator plans to install or implement to eliminate or minimize flaring and planned date of installation or implementation.</p> <p>An evaluation of prevention measures to reduce flaring that has occurred or may be expected to occur during planned major maintenance activities, including startup and shutdown.</p> <p>An evaluation of preventative measures to reduce flaring that may be expected to occur due to issues of gas quantity and quality. The evaluation shall include an audit of the vent gas recovery capacity of each flare system, the storage capacity available for excess vent gases, and the scrubbing capacity available for vent gases including any limitations associated with scrubbing vent gases for use as a fuel; and shall determine the feasibility of reducing flaring through the recovery, treatment and use of the gas or other means.</p> <p>An evaluation of preventative measures to reduce flaring caused by the recurrent failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. The evaluation shall determine the adequacy of existing maintenance schedules and protocols for such equipment. For purposes of this section, a failure is recurrent if it occurs more than twice during any five year period as a result of the same cause as identified in accordance with Section 6.2.2.</p> <p>Any other information requested by the APCO as necessary for determination of compliance with applicable provisions of this rule.</p> <p>Every five years after the initial FMP submittal, the operator shall submit an updated FMP for each flare to the APCO for approval. The current FMP shall remain in effect until the updated FMP is approved by the APCO. If the operator fails to submit an updated FMP as required by this section, the existing FMP shall no longer be considered an approved plan.</p> <p>An updated FMP shall be submitted by the operator pursuant to Section 6.5 addressing new or modified equipment, prior to installing the equipment. Updated</p>		

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
<p>FMP submittals are only required if:</p> <p>The equipment change would require an authority to construct (ATC) and would impact the emissions from the flare, and</p> <p>The ATC is deemed complete after June 18, 2009, and</p> <p>The modification is not solely the removal or decommissioning of equipment that is listed in the FMP, and has no associated increase in flare emissions.</p> <p>When submitting the initial FMP, or updated FMP, the operator shall designate as confidential any information claimed to be exempt from public disclosure under the California Public Records Act, Government Code Section 6250 et seq. If a document is submitted that contains information designated confidential, the operator shall provide a justification for this designation and shall submit a separate copy of the document with the information designated confidential redacted.</p>		
<p><u>Vent Gas Composition Monitoring</u></p> <p>Effective on and after July 1, 2011, the operator of a petroleum refinery flare or any flare that has a flaring capacity equal to or greater than 50 MMBtu per hour shall monitor vent gas composition using one of the five methods pursuant to Section 6.6.1 through Section 6.6.5 as appropriate.</p> <p>Sampling that meets the following requirements:</p> <p>If the flow rate of vent gas flared in any consecutive 15-minute period continuously exceeds 330 standard cubic feet per minute (SCFM), a sample shall be taken within 15 minutes. The sampling frequency thereafter shall be one sample every three hours and shall continue until the flow rate of vent gas flared in any consecutive 15-minute period is continuously 330 SCFM or less. In no case shall a sample be required more frequently than once every 3 hours.</p> <p>Samples shall be analyzed pursuant to Section 6.3.4.</p> <p>Integrated sampling that meets the following requirements:</p> <p>If the flow rate of vent gas flared in any consecutive 15 minute period continuously exceeds 330 SCFM, integrated sampling shall begin within 15 minutes and shall continue until the flow rate of vent gas flared in any consecutive 15 minute period is continuously 330 SCFM or less.</p> <p>Integrated sampling shall consist of a minimum of one aliquot for each 15-minute period until the sample</p>		X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
<p>container is full. If sampling is still required pursuant to Section 6.6.2.1, a new sample container shall be placed in service within one hour after the previous sample was filled. A sample container shall not be used for a sampling period that exceeds 24 hours.</p> <p>Samples shall be analyzed pursuant to Section 6.3.4.</p> <p>Continuous analyzers that meet the following requirements:</p> <p>The analyzers shall continuously monitor for total hydrocarbon methane, and depending upon the analytical method used pursuant to Section 6.3.4, hydrogen sulfide or total reduced sulfur.</p> <p>The hydrocarbon analyzer shall have a full-scale range of 100% total hydrocarbon.</p> <p>Each analyzer shall be maintained to be accurate to within 20% when compared to any field accuracy tests or to within 5% of full scale.</p> <p>Continuous analyzers employing gas chromatography that meet the following requirements:</p> <p>The gas chromatography system shall monitor for total hydrocarbon, methane, and hydrogen sulfide.</p> <p>The gas chromatography system shall be maintained to be accurate within 5% of full scale.</p> <p>Monitor sulfur content using a colorimetric tube system on a daily basis, and monitor vent gas hydrocarbon on a weekly basis by collecting samples and having them tested pursuant to a method in Section 6.3.4.</p> <p>If flares share a common header, a sample from the header will be deemed representative of vent gas composition for all flares served by the header.</p> <p>The operator shall provide the APCO with access to the monitoring system to collect vent gas samples to verify the analysis required by Section 5.11.</p> <p><u>Pilot and Purge Gas Monitoring</u></p> <p>Effective on and after July 1, 2011, the operator of a petroleum refinery flare or any flare that has a flaring capacity equal to or greater than 50 MMBtu per hour shall monitor the volumetric flows of purge and pilot gases with flow measuring devices or other parameters as specified on the Permit to Operate so that volumetric flows of pilot and purge gas may be calculated based on pilot design and the parameters monitored.</p> <p><u>Water Seal Monitoring</u></p> <p>Effective on and after July 1, 2011, the operator of a</p>		

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
<p>petroleum refinery flare or any flare that has a flaring capacity equal to or greater than 50 MMBtu per hour with a water seal shall monitor and record the water level and pressure of the water seal that services each flare daily or as specified on the Permit to Operate.</p> <p><u>General Monitoring</u></p> <p>Effective on and after July 1, 2011, the operator of a petroleum refinery flare or any flare that has a flaring capacity equal to or greater than 50 MMBtu per hour shall comply with the following, as applicable:</p> <p>Periods of flare monitoring system inoperation greater than 24 continuous hours shall be reported by the following working day, followed by notification of resumption of monitoring. Periods of inoperation of monitoring equipment shall not exceed 14 days per any 18-consecutive-month period. Periods of flare monitoring system inoperation do not include the periods when the system feeding the flare is not operating.</p> <p>During periods of inoperation of continuous analyzers or auto-samplers installed pursuant to Section 6.6, operators responsible for monitoring shall take one sample within 30 minutes of the commencement of flaring, from the flare header or from an alternate location at which samples are representative of vent gas composition and have samples analyzed pursuant to Section 6.3.4. During periods of inoperation of flow monitors required by Section 5.10, flow shall be calculated using good engineering practices.</p> <p>Maintain and calibrate all required monitors and recording devices in accordance with the applicable manufacturer's specifications. In order to claim that a manufacturer's specification is not applicable, the person responsible for emissions must have, and follow, a written maintenance policy that was developed for the device in question. The written policy must explain and justify the difference between the written procedure and the manufacturer's procedure.</p> <p>All in-line continuous analyzer and flow monitoring data must be continuously recorded by an electronic data acquisition system capable of one-minute averages. Flow monitoring data shall be recorded as one-minute averages.</p> <p><u>Video Monitoring</u></p> <p>Effective on and after July 1, 2011, the operator of a petroleum refinery flare shall install and maintain equipment that records a real-time digital image of the flare and flame at a frame rate of no less than one frame per minute. The recorded image of the flare shall be of sufficient size, contrast,</p>		

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
and resolution to be readily apparent in the overall image or frame. The image shall include an embedded date and time stamp. The equipment shall archive the images for each 24-hour period. In lieu of video monitoring the operator may use an alternative monitoring method that provides data to verify date, time, vent gas flow, and duration of flaring events.		

ATTACHMENT D

Detailed Facility List

Detailed Facility Report
For Facility=535 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

FRESNO/CLOVIS REGIONAL WWTP 5607 W JENSEN AVE FRESNO, CA 93706	FAC # STATUS: TELEPHONE:	C 535 A 2094981707	TYPE: TOXIC ID:	TitleV 40042	EXPIRE ON: AREA: INSP. DATE:	01/31/2006 5 / 08/11
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
C-535-6-9	16.7 MMBTU/HR BOILER	3020-02 H	1	1,030.00	1,030.00	A	16.7 MMBTU/HR CLEAVER-BROOKS MODEL CBI-700-400 DIGESTER GAS-FIRED BOILER WITH AN ALZETA MODEL CSB167R ULTRA LOW NOX BURNER
C-535-9-11	36.3 MMBTU/HR FLARE	3020-02 H	1	1,030.00	1,030.00	A	36.3 MMBTU/HR JOHN ZINK COMPANY WASTE GAS FLARE
C-535-10-1	2518 HP EMERGENCY IC ENGINE	3020-10 F	1	749.00	749.00	A	2518 HP CATERPILLAR MODEL 3516 EMERGENCY TURBOCHARGED DIESEL-FIRED IC ENGINE POWERING 1750 KW GENERATOR.
C-535-11-1	140 HP EMERGENCY IC ENGINE	3020-10 B	1	117.00	117.00	A	140 HP CATERPILLAR MODEL #3116-DIT EMERGENCY TURBOCHARGED DIESEL FIRED IC ENGINE #1 SERVING A WATER TRANSFER PUMP.
C-535-12-1	140 HP EMERGENCY IC ENGINE	3020-10 B	1	117.00	117.00	A	140 HP CATERPILLAR MODEL #3116-DIT EMERGENCY TURBOCHARGED DIESEL FIRED IC ENGINE #2 SERVING A WATER TRANSFER PUMP.
C-535-13-4	150 hp electric motor	3020-01 D	1	314.00	314.00	A	150 HP ODOR CONTROL SCRUBBING SYSTEM INCLUDING THREE(3) 50 HP RJ ENVIRONMENTAL PACKED TOWER CAUSTIC SCRUBBERS EACH EQUIPPED WITH A KIMRE MIST ELIMINATOR MODEL B-GON
C-535-17-1	455 BHP CUMMINS ENGINE	3020-10 D	1	479.00	479.00	A	455 HP CUMMINS MODEL NTA855 EMERGENCY DIESEL-FIRED IC ENGINE POWERING AN ONAN MODEL 350DFCC, 350 KW EMERGENCY GENERATOR SET.
C-535-18-5	3.377 MW ELECTRICAL GENERATION	3020-08A C	1	1,533.00	1,533.00	A	3.377 MW DIGESTER/NATURAL GAS-FIRED TURBINE GENERATOR #1 WITH WATER INJECTION AND HEAT RECOVERY STEAM GENERATOR
C-535-19-5	3.377 MW TURBINE GENERATOR	3020-08A C	1	1,533.00	1,533.00	A	3.377 MW DIGESTER/NATURAL GAS-FIRED TURBINE GENERATOR #2 WITH WATER INJECTION AND HEAT RECOVERY STEAM GENERATOR
C-535-20-1	158 bhp IC engine	3020-10 B	1	117.00	117.00	A	158 BHP DEUTZ MODEL #BFGL913 LOW-USE DIESEL-FIRED IC ENGINE USED EXCLUSIVELY FOR TURBINE STARTUP ONLY
C-535-21-1	158 bhp IC engine	3020-10 B	1	117.00	117.00	A	158 BHP DEUTZ MODEL #BFGL913 LOW-USE DIESEL-FIRED IC ENGINE USED EXCLUSIVELY FOR TURBINE STARTUP ONLY
C-535-24-1	125 BHP IC DIESEL-FIRED IC ENGINE	3020-10 B	1	117.00	117.00	A	125 BHP JOHN DEERE MODEL 4045HF275 TIER 3 CERTIFIED TRANSPORTABLE DIESEL-FIRED IC ENGINE POWERING AN AIR COMPRESSOR

Number of Facilities Reported: 1