



AUG 23 2016

Mr. Kevin Monahan
Kern Front Limited
34759 Lencioni Ave
Bakersfield, CA 93308

**Re: Notice of Preliminary Decision – Title V Permit Renewal
District Facility # S-1120
Project # S-1153490**

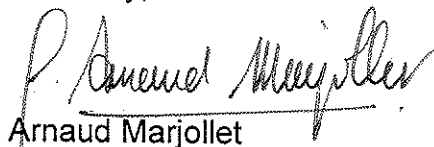
Dear Mr. Monahan:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Kern Front Limited at 12241 Oilfield Road, Bakersfield, California.

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

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

Sincerely,



Arnaud Marjollet
Director of Permit Services

Enclosures

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

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**SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT**

Proposed Title V Permit Renewal Evaluation
Title V Permit Renewal Evaluation
Kern Front Limited
S-1120

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FINAL DECISION
TITLE V PERMIT RENEWAL EVALUATION
Gas Fired Turbine Engines

Engineer: Steve Davidson
Date: July 14, 2016

Facility Number: S-1120
Facility Name: Kern Front Limited
Mailing Address: 34759 Lencioni Avenue
Bakersfield, CA 93308
Contact Name: Kevin Monahan
Phone: (661) 387-7846

Responsible Official: Kevin Monahan
Title: Plant Manager

Project # : S-1153490
Deemed Complete: August 20, 2015

I. PROPOSAL

Initial Proposal:

Kern Front Limited's (KFL) Title V permit was renewed on May 3, 2011. As required by District Rule 2520, the applicant is requesting that the permit be renewed within the time frames of District Rule 2520. The existing Title V permit shall be reviewed and modified to reflect all applicable District and Federal rules updated, removed, or added since the issuance of the renewed Title V permit.

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

II. FACILITY LOCATION

The facility is located at 12241 Oilfield Road in Bakersfield, CA. USGS Section 2, Township 28S, Range 27E MDB&M.

III. EQUIPMENT LISTING

See Attachment C for a list of all permitted equipment at the facility.

IV. GENERAL PERMIT TEMPLATE USAGE

The applicant is requesting to use the following model general permit Templates:

A. Template SJV-UM-0-1 Facility Wide Umbrella

The applicant has requested to utilize template No. SJV-UM-0-1, Facility Wide Umbrella. Based on the information submitted in the Template Qualification Form, the applicant qualifies for the use of this template.

V. SCOPE OF EPA AND PUBLIC REVIEW

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

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

Conditions 1-40 of facility wide permit S-1120-0-4 contain these conditions of the 0-3 umbrella template and are not subject to further EPA or public review.

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated

- District Rule 2020, Exemptions, (amended December 18, 2014)
- District Rule 2201, New and Modified Stationary Source Review Rule (amended February 18, 2016)
- 40 CFR Part 60, Subpart GG, Standards of Performance for Stationary Gas Turbines (amended February 27, 2014)

- 40 CFR Part 60, Subpart KKKK, Standards of Performance for Stationary Gas Turbines (amended march 20, 2009)
- 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners (amended June 25, 2013)
- 40 CFR Part 82, Subpart F, Recycling and Emissions Reduction (amended April 10, 2015)

B. Rules Adopted

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

C. Rules Not Updated

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

- District Rule 4202, Particulate Matter–Emission Rate (amended December 17, 1992)
- District Rule 4663, Organic Solvent Cleaning, Storage, and Disposal (amended September 20, 2007)
- District Rule 4703, Stationary Gas Turbines (amended August 17, 2006 = amended September 20, 2007)
- District Rule 4601, Architectural Coatings (amended December 17, 2009)
- District Rule 8011, General Requirements (amended August 19, 2004)
- District Rule 8021, Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities (amended August 19, 2004)
- District Rule 8031, Bulk Materials (amended August 19, 2004)
- District Rule 8041, Carryout and Trackout (amended August 19, 2004)
- District Rule 8051, Open Areas (amended August 19, 2004)
- District Rule 8061, Paved and Unpaved Roads (amended August 19, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas (amended September 16, 2004)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos (amended July 20, 2004)
- 40 CFR Part 64, Compliance Assurance Monitoring (CAM) (amended October 22, 1997)

The Rules listed above are listed on the current Permits to Operate. The Rules have not changed since they were addressed and placed on the permits; therefore, the facility's permit is compliant with these Rules and no further discussion of these rules is required.

VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

For each Title V source, the District issues a single permit that contains both the federally enforceable requirements as well as 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 beyond this section.

- District Rule 4102, Nuisance (adopted May 21, 1992, amended December 17, 1992)

Condition 42 on the facility-wide permit identifies the requirements of Rule 4102.

Conditions 8 and 19 on permit S-1120-1-14 and '2-13 identify ammonia emissions requirements from CH&SC 41700, Health Risk Assessment.

A. Rules Added

No non-federally enforceable rules have been added.

B. Rules Updated

No non-federally enforceable rules that affect this facility have been updated since the last Title V renewal.

VIII. FEDERALLY ENFORCEABLE PERMIT REQUIREMENTS

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

A. Equipment Description

The equipment description is considered a condition for operation. Therefore, the description is enforceable :

Renewal PTO S-1120-1-14:

NOMINALLY RATED 25 MW GENERAL ELECTRIC LM-2500 NATURAL GAS FIRED GAS TURBINE ENGINE COGENERATION SYSTEM WITH STEAM INJECTION

Renewal PTO S-1120-2-13:

NOMINALLY RATED 25 MW GENERAL ELECTRIC LM-2500 NATURAL GAS FIRED GAS TURBINE ENGINE COGENERATION SYSTEM WITH STEAM INJECTION

B. District Rule 2020 – Exemptions

Rule 2020 has been amended.

This rule identifies emissions units that are not required to obtain an Authority to Construct or Permit to Operate. This rule also specifies the recordkeeping requirements to verify the exemption and outlines the compliance schedule for emissions units that lose the exemption after installation.

Condition 4 on the facility-wide permit identifies the requirements of Rule 2020.

C. 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. However, this Title V permit renewal does not constitute a modification. Per section 3.26, a modification is 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. NSR conditions that have not been updated or removed from the permit will not be addressed in this evaluation.

D. District Rule 2410 – Prevention of Significant Deterioration

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

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

E. 40 CFR Part 60, Subpart GG, Standards of Performance for Stationary Gas Turbine

Subpart Dc applies to all stationary gas turbines with a heat input at peak load equal to or greater than 10.7 gigajoules (10 million Btu) per hour, based on the lower heating value of the fuel fired. Therefore, this subpart applies to the turbines.

Section 60.332, paragraphs (a)(2) and (c) specify a NO_x emission limit for electric utility stationary gas turbines rated greater than 10 MMBtu/hr but less than 100 MMBtu/hr (@ LHV) as follows:

$$STD = 0.015 \times \frac{(14.4)}{Y} + F$$

Where:

STD = allowable, ISO corrected (if required as given in 60.335(b)(1)), NO_x emissions concentration (Percent by volume at 15 percent oxygen on a dry basis).

Y = manufacturer's rated heat rate at manufacturer's rated peak load (kilojoules per watt hour), or actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility. The value of Y shall not exceed 14.4 kilojoules per watt-hour.

F = NO_x emission allowance for fuel bound nitrogen as defined in 60.332(a)(4).

The NOx emission allowance for fuel bound nitrogen and F is not included. Therefore, it is equal to zero. Thus,

$$Y = 794.6 \text{ MMBtu(HHV)/hr} \times 909 \text{ MMBtu(LHV)/1000 MMBtu(HHV)} \\ \text{(LHV)} \times 10^6 \text{ BTU/MMBtu} \times 1054.2 \text{ J/BTU} \times 1 \text{ KJ/1000 Joules} \\ \div (49.5 \times 10^6 \text{ watts})$$

$$Y = 15.4 \text{ KJ/watt-hour} = 14.4 \text{ KJ/watt-hour (per definition of Y)}$$

Substituting F=0 and Y=14.4 into the equation for STD gives:

$$STD = 0.0075 \frac{14.4}{14.4} + 0$$

$$STD = 0.0075\% \text{ by volume NOx @ } 15\% \text{ O}_2$$

Condition 15, on permits S-1120-1-14 and '2-13, limits the NOx to 4.5 ppmvd @ 15% O₂ (0.000045 % by volume NOx @ 15% O₂)¹ for natural gas.

Therefore, compliance is expected.

Section 60.333, paragraphs (a) and (b) list the following requirements:

- Emissions of sulfur dioxide shall not exceed 0.015 percent by volume (dry) @ 15% O₂ (150 ppmvd @ 15% O₂).
- No fuel shall be burned which contains sulfur in excess of 0.8 percent by weight.

The 150 ppmvd @ 15% O₂ limit specified in section 60.333, paragraph (a) is equivalent to 0.769 lb-SO_x/MMBtu as follows:

$$\frac{(150 \text{ ppmvd}) \times \left(8,578 \frac{\text{ft}^3}{\text{MMBtu}}\right) \times \left(64 \frac{\text{lb} - \text{SO}_x}{\text{lb} - \text{mol}}\right) \times \left(\frac{20.9}{20.9 - 15}\right)}{\left(379.5 \frac{\text{ft}^3}{\text{lb} - \text{mol}}\right) \times (10^6)} = 0.769 \frac{\text{lb} - \text{SO}_x}{\text{MMBtu}}$$

The SO_x emissions are based on combusting PUC-regulated natural gas with a fuel sulfur content of 1.0 gr/100 scf, which results in an emission rate of 0.00285 lb-SO_x/MMBtu. Rule compliance is expected.

¹ % by volume = 4.5 ppmvd @ 3% O₂ x 1% by volume/10,000 ppmv

Section 60.334 list the monitoring requirements of this operation. This section was last updated ON February 24, 2006. The requirements of this section have not changed since they were addressed and placed on the permits; therefore, the facility's permit is compliant with the requirements of this section.

Section 60.335 list the test methods and procedures for the initial source test of this operation. This Section was last modified on February 27, 2014; therefore, the permit will be evaluated and updated to ensure compliance with this section. However, the initial source test requirements have been satisfied and continued compliance is expected.

F. 40 CFR Part 60, Subpart KKKK, Standards of Performance for Stationary Gas Turbines

Section 60.4305(a) states that stationary combustion turbines with a heat input at peak load equal to or greater than 10 MMBtu/hr, based on the higher heating value of the fuel, which commenced construction, modification, or reconstruction after February 18, 2005 are subject to this Subpart. The turbines operated by KFL at this site were constructed prior to this date, and have not been modified or reconstructed after February 18, 2005. Therefore, Subpart KKKK is not applicable to these turbines. No further analysis is necessary.

G. 40 CFR Part 61, Subpart B, Servicing of Motor Vehicle Air Conditioners

The changes to 40 CFR Part 82, Subpart B have been addressed through umbrella template 0-3. The applicant has proposed the use of this umbrella template and the umbrella template conditions will be included on the facility wide permit. No further analysis is necessary.

H. 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.

Major Source Thresholds (9/21/06 Revision of Rule 2201)

Pollutant	lb/year	ton/year
NOx	20,000	10
SOx	140,000	70
PM10	140,000	70
CO	200,000	100
VOC	20,000	10

S-1120-1-13 & -2-12 — 25 MW General Electric LM-2500 Natural Gas
Fired Gas Turbine Engine

These permit units have emissions limits for all five criteria pollutants (NOx, SOx, PM10, CO, and VOC). There are no add-on controls for VOC, SOx, and PM10, therefore CAM is not applicable for VOC, SO, and PM. Based on 40 CFR 64.2(b)(1)(vi), NOx and CO emissions limits are exempt from CAM since the Part 70 permit already specifies a continuous compliance determination method for both NOx and CO. Therefore, CAM is not applicable and the equipment is exempt from CAM requirements for NOx and CO emissions.

I. 40 CFR Part 82, Subpart F, Recycling and Emissions Reduction

The changes to 40 CFR Part 82, Subpart F have been addressed through umbrella template 0-3. The applicant has proposed the use of this umbrella template and the umbrella template conditions will be included on the facility wide permit. No further analysis is necessary.

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. Because KFL has chosen to use the general template the conditions will remain on the permits.

X. PERMIT CONDITIONS

See Attachment A - Draft Renewed Title V Operating Permit.

XI. ATTACHMENTS

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

ATTACHMENT A

Draft Renewal Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: S-1120-0-4

EXPIRATION DATE: 02/29/2016

FACILITY-WIDE REQUIREMENTS

1. {4362} The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. {4363} The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
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

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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 Rules 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 Rules 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 Rules 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 Rules 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 Rules 8061 and 8011] Federally Enforceable Through Title V Permit

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

34. {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rules 8071 and 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. {4400} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
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. Facility shall notify the APCO of a violation of any emission standards indicated by the CEMs within 96 hours of occurrence. The APCO shall be notified within 8 hours after detection of a breakdown in monitoring equipment and 24 hours prior to a planned shut down of monitoring equipment. [District Rule 2520, 9.6.2; Rule 1080, 9.0 and 10.0; Kern County Rule 108; 40 CFR 60.334(c) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
42. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
43. An owner or operator shall not use organic solvents for cleaning operations that exceed the VOC content limits specified as follows: A) Product cleaning during manufacturing process or surface preparation for adhesive application; 1) general, 25 g/l (0.21 lb/gal) and 2) electrical apparatus components and electronic components, 100 g/l (0.84 lb/gal); B) repair and maintenance cleaning, 1) 25 g/l (0.21 lb/gal) and 2) electrical apparatus components and electronic components 100 g/l (0.84 lb/gal); C) cleaning of coating or adhesive application equipment, 25 g/l (0.21 lb/gal) [District Rule 4663, 5.1] Federally Enforceable Through Title V Permit

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

44. Cleaning activities that use solvents with a VOC content greater than 25 g/l (0.21 lb/gallon) shall be performed by one or more of the following methods: 1) wipe cleaning; 2) application of solvent from hand-held spray bottles from which solvents are dispensed without a propellant-induced force; 3) non-atomized solvent flow method in which the cleaning solvent is collected in a container or a collection system which is closed except for solvent collection openings and, if necessary, openings to avoid excessive pressure build-up inside the container, or; 4) solvent flushing method in which the cleaning solvent is discharged into a container that is closed except for solvent collection openings and, if necessary, openings to avoid excessive pressure build-up inside the container. The discharged solvent from the equipment must be collected into containers without atomizing into the open air. The solvent may be flushed through the system by air or hydraulic pressure, or by pumping. [District Rule 4663, 5.2.5] Federally Enforceable Through Title V Permit
45. Solvent shall not be atomized into the open air unless it is vented to a VOC emission control system. This provision shall not apply to the cleaning of nozzle tips of automated spray equipment systems, except for robotic systems, and cleaning with spray bottles or containers described elsewhere in this permit. [District Rule 4663, 5.2.6] Federally Enforceable Through Title V Permit
46. An owner or operator shall not use VOC-containing materials to clean spray equipment used for the application of coatings, adhesives, or ink, unless an enclosed system or equipment that is proven to be equally effective at controlling emissions is used for cleaning. If an enclosed system is used, it must totally enclose spray guns, cups, nozzles, bowls, and other parts during washing, rinsing and draining procedures, and it must be used according to the manufacturer's recommendations and must be closed when not in use. [District Rule 4663, 5.2.7] Federally Enforceable Through Title V Permit
47. All fresh or spent solvents, waste solvent cleaning materials such as cloth, paper, etc., coatings, adhesives, catalysts and thinners shall be stored in closed, non-absorbent and non-leaking containers. [District Rule 4663, 5.4] Federally Enforceable Through Title V Permit
48. In lieu of complying with the requirements in Table 1, an owner or operator may comply with this rule by using a VOC emission collection and control system in association with the solvent cleaning operation as provided in District Rule 4663, 5.2 (Adopted September 20, 2007). [District Rule 4663, 5.3] Federally Enforceable Through Title V Permit
49. An owner or operator shall maintain the records required by District Rule 4663, Sections 6.2.2 through 6.2.6 (Amended September 20, 2007) at the stationary source for a period of five years. The records shall be made available to the APCO upon request. [District Rules 1070 and 4663, 6.2.1] Federally Enforceable Through Title V Permit
50. The VOC content of solvents and organic materials shall be determined by using United States Environmental Protection Agency (EPA) Test Method 24 or 24A, or South Coast Air Quality Management District (SCAQMD) Method 304 (Determination of Volatile Organic compounds in Various Materials), or by using the manufacturer's product formulation data and the formula for "Grams of VOC per liter of Material" in Section 3.0. [District Rule 4663, 6.3.1.1] Federally Enforceable Through Title V Permit
51. The content of exempt halogenated VOCs shall be determined by using the California Air Resources Board (ARB) Test Method 432 or SCAQMD Test Method 303 (Determination of Exempt Compounds). [District Rule 4663, 6.3.1.2] Federally Enforceable Through Title V Permit
52. The facility shall comply with all applicable requirements regarding preparation and implementation of a Risk Management Plan and shall abide by all applicable sections of 40 CFR Part 68. [40 CFR Part 68] Federally Enforceable Through Title V Permit
53. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin January 1 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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

DRAFT

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1120-1-14

EXPIRATION DATE: 02/29/2016

SECTION: 02 TOWNSHIP: 28S RANGE: 27E

EQUIPMENT DESCRIPTION:

NOMINALLY RATED 25 MW GENERAL ELECTRIC LM-2500 NATURAL GAS FIRED GAS TURBINE ENGINE
COGENERATION SYSTEM WITH STEAM INJECTION

PERMIT UNIT REQUIREMENTS

1. Except during system breakdowns, repairs and maintenance, calibration checks, and zero and span adjustments, the continuous emission monitoring system shall be in continuous operation. NOx emissions in ppmv (corrected to 15% O2) and O2 concentrations must be recorded continuously (except as noted before) and data shall be reduced to 15 minute averages per 40 CFR Part 60.13(e)(2). [District Rule 2201; 40 CFR 60.486 paragraph b, c and d and 40 CFR Part 64] Federally Enforceable Through Title V Permit
2. Unfired heat recovery steam generator turbine exhaust for the unit shall be equipped with continuous emissions monitors (CEM) for NOx, CO, and O2. The continuous NOx monitoring system shall meet the performance specification requirements in 40 CFR, Part 60, Appendix B, Spec 2, 40 CFR Part 60, Appendix F, 40 CFR Part 51, Appendix P, and 40 CFR Part 60.7(c), 60.7(d) and 60.13 or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rules 2201 and 1080; 4703, 6.2.1, 6.2.3; Kern County Rule 108; 40 CFR Part 60 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
3. Gas-fired turbine shall be equipped with combustor steam injection and a selective catalytic reduction (SCR) system utilizing ammonia as the reducing agent. [District Rules 2201 and 4703, 5.1] Federally Enforceable Through Title V Permit
4. Gas turbine combustor steam injection system shall be equipped with continuously recording steam and fuel injection rate monitoring system, accurate to within +/- 5%. [District Rules 2201 and 4703, 6.2.1 and 40 CFR 60.334(a)] Federally Enforceable Through Title V Permit
5. Audits of monitors shall be conducted quarterly, except during quarters in which RATA 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 the quarterly compliance reports to the District. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The gas turbine shall be fired exclusively with PUC regulated or FERC regulated natural gas, with fuel gas sulfur content not to exceed 1 grain S/100 scf. [District Rules 2520, 9.3.2; 4801; 40 CFR 60.332(a) and 60.333(a) & (b); CFR 60.332(a); Kern County Rule 407] Federally Enforceable Through Title V Permit
7. Gas turbine steam injection rate shall be maintained at a steam to fuel ratio which results in compliance with emissions limits, except during periods of startup, shutdown, and malfunction as defined in this permit. Only malfunctions as defined in 40 CFR 60 qualify for this exemption. [40 CFR Part 60, Subpart A and 40 CFR Part 64] Federally Enforceable Through Title V Permit
8. Ammonia injection rate shall be controlled to maintain ammonia slip to less than 20 ppmv. [District Rule 4102]
9. Gas turbine engine shall not be operated unless steam injection system, selective catalytic reduction system, and oxidation catalyst system are operating, except during periods of startup and shutdown as defined herein. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. Inlet gas temperature to catalyst bed shall be maintained within range recommended by catalyst manufacturer except during periods of startup and shutdown as defined herein. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
11. All gas turbine exhaust shall flow through both catalyst beds. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Gas turbine and generator lube oil atmospheric vents shall be equipped with mist eliminators. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Liquids collected from lube oil system (including atmospheric vent) shall be stored in closed containers such that VOC emissions do not occur. [District Rule 2201] Federally Enforceable Through Title V Permit
14. The emission rate from the gas turbine exhaust shall not exceed the following: PM10: 74.88 lb/day and 3.12 lb/hr, NOx (as NO2): 96.96 lb/day, SOx (as SO2): 17.1 lb/day, and CO: 669.19 lb/day. [District Rules 2201 and 4201; 4703, 5.1, 5.2; 40 CFR Part 60.332(a) and 333(b); and 40CFR Part 64] Federally Enforceable Through Title V Permit
15. Nitrogen oxides (as NO2) concentration from the gas turbine exhaust stack shall not exceed 4.5 ppmv dry calculated to 15% O2, except during periods of startup and shutdown. [District Rules 2201 and 4703, 5.1 and 40 CFR Part 60.332(a)] Federally Enforceable Through Title V Permit
16. Total VOC emissions, including those from the gas turbine exhaust and lube oil vents shall not exceed 3.12 lb/hr and 74.84 lb/day, except during periods of startup and shutdown. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Carbon monoxide (CO) concentration from the gas turbine exhaust stack shall not exceed 51 ppmv dry calculated to 15% O2, except during periods of startup and shutdown. [District Rules 2201 and 4703, 5.2; and 40CFR Part 64] Federally Enforceable Through Title V Permit
18. Compliance with PM10 (hourly) emission limit shall be demonstrated by sample collection taken by independent testing laboratory within 60 days upon visible emissions in excess of 5% opacity from turbine exhaust. The District shall be notified prior to any sampling event. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Compliance with the ammonia slip (ppmv) emission limits shall be demonstrated by sample collection taken by independent testing laboratory annually within 60 days prior to permit anniversary date. The District shall be notified prior to the completion of any sampling event. Official test results and field data collection shall be submitted to the District within 60 days of testing. [District Rule 4102]
20. Any lube oil cooler/accumulating vent having visible emissions with an opacity of 5% or greater shall be tested to demonstrated compliance with lube oil cooler/accumulating vent VOC hourly emissions limit. Official test results and field data collected shall be submitted within 60 days of testing. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Facilities shall demonstrate compliance with NOx and CO daily emissions limits by use of CEM data, fuel rate data, and daily hours of operation data. A written record of the required compliance demonstrations shall be maintained and made available for District inspection for a period of five years. [District Rules 2201 and 2520, 9.3.2 and 9.4.2 and 4703, 6.2.4 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
22. Startup and shutdown and reduced load period of the gas turbine, as defined in this permit, in 40 CFR Subpart A 60.2, and in Rule 4703 shall not exceed a time period of two hours and one hour, respectively, per occurrence. Emission concentrations subsequent to this startup period shall not exceed the limits specified in this permit, except during shutdown. [District Rule 4703, 3.23, 3.26, 3.29 and 40 CFR Subpart A 60.2] Federally Enforceable Through Title V Permit
23. CEM data can be used in addition to stack testing to determine compliance with the NOx and CO concentrations and daily emission rates. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

24. Operations during periods of startup and shutdown shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the emission limit shown in this permit during periods of startup and shutdown be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. This requirement only applies to the subsumed NOx and SO2 emission standards under NSPS subpart GG for Stationary Gas Turbines. [40 CFR 60.8(c)] Federally Enforceable Through Title V Permit
25. The circular cross section exhaust stack (after SCR unit) shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and equipped with flow straighteners, if necessary, to minimize turbulence. The facility shall comply with this and all applicable compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rules 2201 and 1081; 4703, 6.2.1 and Kern County Rule 108.1] Federally Enforceable Through Title V Permit
26. Source testing, for VOC (hourly), NOx concentration and CO concentration shall be conducted annually. Compliance source testing shall be conducted under conditions representative of normal operation [District Rules 2201 and 4703, 5.1, 5.2 & 6.3; 40 CFR 60.332(a) & (b) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
27. Nitrogen oxides (NOx) concentrations from each of the gas turbine exhaust shall be determined using EPA Method 7E or 20, and oxygen (O2) concentration shall be determined using EPA Method 3, 3A, or 20. Carbon monoxide (CO) emissions shall be determined using EPA Test Methods 10 or 10B. Source test results will be provided to the district annually. EPA approved alternate test methods may also be used to address the source testing requirement of this permit. [District Rules 1081; 2520, 9.3; 4703, 5.1, 5.2 & 6.4 and 40 CFR Subpart GG, 60.335(b), (c)] Federally Enforceable Through Title V Permit
28. The facility shall comply with the applicable requirements for quality assurance testing and maintenance of the CEM equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. [District Rules 1080; 4703, 6.2.3; 40 CFR Part 60 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
29. CEM results 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 Rules 1080, 7.2; 4703, 6.2.3; Kern County Rule 108 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
30. Except for NOx and CO emission data obtained for compliance demonstration purposes, CEM data shall be averaged in accordance with the requirements specified under 40 CFR Part 60.13. Compliance results for NOx and CO shall be averaged over a three hour period. [District Rule 4703, 5.0, 6.2.3 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
31. Records shall be maintained and shall contain: the occurrence and duration of any startup, shutdown, or malfunction; performance testing, evaluations, calibrations, checks, adjustments, any period during which a continuous monitoring system or monitoring device was inoperative, maintenance of any CEM that have been installed pursuant to District Rule 1080; emission measurements, and daily actual local startup and stop time, length and reason for reduced load periods, total hours of operation and daily quantity of fuel used. [District Rules 1080; 4703, 6.2.6, 7.3; Kern County Rule 108; 40 CFR 60.332(a), (b); and 40 CFR Part 64] Federally Enforceable Through Title V Permit
32. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: SJVUAPCD Rules 1080, sections 4.0, 6.5, 7.2, 7.3, 8.0, 9.0, and 10.0 (Amended December 17, 1992); 1081 (Amended December 16, 1993); 4201 (Amended December 17, 1992); 4703 sections 5.0, 5.1, 5.2, 6.2.1, 6.2.2, 6.2.4, 6.3, and 6.4 (Amended September 20, 2007); 4801 (Amended December 17, 1992); 40 CFR 60.332(a),(b); 60.333(a),(b),(c); 60.334(a),(c); and 60.335(b),(c); and 40 CFR 64. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
33. Gas-fired turbine shall be equipped with carbon monoxide (CO) catalytic oxidizer. [District Rules 2201 and 4703, 5.2 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
34. All permits issued to facilities S-172, S-1118, S-1119, S-1120 and S-2049 are included in the same heavy oil central stationary source. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

35. Operators of CEMS 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: 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; and a negative declaration when no excess emissions occurred. [District Rules 1080, 8.0; 2520, 9.6.1; Rule Kern County Rule 108; 40 CFR 60.7(c) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
36. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. Official test results and field data collected by source tests required by conditions on this permit shall be submitted to the District within 60 days of testing. [District Rules 1081, 7.0; 4703, 6.3 and Kern County Rule 108.1] Federally Enforceable Through Title V Permit
37. Facility shall maintain on file copies of all natural gas fuel invoices, natural gas bills, gas purchase contracts, supplier certifications, and test results used to determine compliance with the requirements of this permit unit. Certification of the sulfur content by the gas supplier will be an acceptable alternative for verifying compliance. [District Rules 2520, 9.3.2; 4801; Kern County Rule 407; 40 CFR 60.332(a); 60.333(a) & (b) and 40 CFR Part 60.334(b)(2)] Federally Enforceable Through Title V Permit
38. All CEMS data required to comply with the conditions in this permit shall be rounded to the same number of significant digits as the specified limits, but not less than two significant digits. [40 CFR 60.13(h) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
39. The total particulate matter (PM) emissions from the gas turbine exhaust shall not exceed 0.1 gr/dscf. [District Rule 4201; Kern County Rule 404] Federally Enforceable Through Title V Permit
40. A written record of the compliance demonstration with NOx and CO daily emissions limits during gas turbine engine startup/shutdown shall be maintained and made available for District inspection for a period of five years. [District Rules 2201 and 2520, 9.4.2 and 4703, 6.2.4] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1120-2-13

EXPIRATION DATE: 02/29/2016

SECTION: 02 TOWNSHIP: 28S RANGE: 27E

EQUIPMENT DESCRIPTION:

NOMINALLY RATED 25 MW GENERAL ELECTRIC LM-2500 NATURAL GAS FIRED GAS TURBINE ENGINE
COGENERATION SYSTEM WITH STEAM INJECTION

PERMIT UNIT REQUIREMENTS

1. Except during system breakdowns, repairs and maintenance, calibration checks, and zero and span adjustments, the continuous emission monitoring system shall be in continuous operation. NOx emissions in ppmv (corrected to 15% O2) and O2 concentrations must be recorded continuously (except as noted before) and data shall be reduced to 15 minute averages per 40 CFR Part 60.13(e)(2). [District Rule 2201; 40 CFR 60.486 paragraph b, c and d and 40 CFR Part 64] Federally Enforceable Through Title V Permit
2. Unfired heat recovery steam generator turbine exhaust for the unit shall be equipped with continuous emissions monitors (CEM) for NOx, CO, and O2. The continuous NOx monitoring system shall meet the performance specification requirements in 40 CFR, Part 60, Appendix B, Spec 2, 40 CFR Part 60, Appendix F, 40 CFR Part 51, Appendix P, and 40 CFR Part 60.7(c), 60.7(d) and 60.13 or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rules 2201 and 1080; 4703, 6.2.1, 6.2.3; Kern County Rule 108; 40 CFR Part 60 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
3. Gas-fired turbine shall be equipped with combustor steam injection and a selective catalytic reduction (SCR) system utilizing ammonia as the reducing agent. [District Rules 2201 and 4703, 5.1] Federally Enforceable Through Title V Permit
4. Gas turbine combustor steam injection system shall be equipped with continuously recording steam and fuel injection rate monitoring system, accurate to within +/- 5%. [District Rules 2201 and 4703, 6.2.1 and 40 CFR 60.334(a)] Federally Enforceable Through Title V Permit
5. Audits of monitors shall be conducted quarterly, except during quarters in which RATA 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 the quarterly compliance reports to the District. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The gas turbine shall be fired exclusively with PUC regulated or FERC regulated natural gas, with fuel gas sulfur content not to exceed 1 grain S/100 scf. [District Rules 2520, 9.3.2; 4801; 40 CFR 60.332(a) and 60.333(a) & (b); CFR 60.332(a); Kern County Rule 407] Federally Enforceable Through Title V Permit
7. Gas turbine steam injection rate shall be maintained at a steam to fuel ratio which results in compliance with emissions limits, except during periods of startup, shutdown, and malfunction as defined in this permit. Only malfunctions as defined in 40 CFR 60 qualify for this exemption. [40 CFR Part 60, Subpart A and 40 CFR Part 64] Federally Enforceable Through Title V Permit
8. Ammonia injection rate shall be controlled to maintain ammonia slip to less than 20 ppmv. [District Rule 4102]
9. Gas turbine engine shall not be operated unless steam injection system, selective catalytic reduction system, and oxidation catalyst system are operating, except during periods of startup and shutdown as defined herein. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. Inlet gas temperature to catalyst bed shall be maintained within range recommended by catalyst manufacturer except during periods of startup and shutdown as defined herein. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
11. All gas turbine exhaust shall flow through both catalyst beds. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Gas turbine and generator lube oil atmospheric vents shall be equipped with mist eliminators. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Liquids collected from lube oil system (including atmospheric vent) shall be stored in closed containers such that VOC emissions do not occur. [District Rule 2201] Federally Enforceable Through Title V Permit
14. The emission rate from the gas turbine exhaust shall not exceed the following: PM10: 74.88 lb/day and 3.12 lb/hr, NOx (as NO2): 96.96 lb/day, SOx (as SO2): 17.1 lb/day, and CO: 669.19 lb/day. [District Rules 2201 and 4201; 4703, 5.1, 5.2; 40 CFR Part 60.332(a) and 333(b); and 40CFR Part 64] Federally Enforceable Through Title V Permit
15. Nitrogen oxides (as NO2) concentration from the gas turbine exhaust stack shall not exceed 4.5 ppmv dry calculated to 15% O2, except during periods of startup and shutdown. [District Rules 2201 and 4703, 5.1 and 40 CFR Part 60.332(a)] Federally Enforceable Through Title V Permit
16. Total VOC emissions, including those from the gas turbine exhaust and lube oil vents shall not exceed 3.12 lb/hr and 74.84 lb/day, except during periods of startup and shutdown. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Carbon monoxide (CO) concentration from the gas turbine exhaust stack shall not exceed 51 ppmv dry calculated to 15% O2, except during periods of startup and shutdown. [District Rules 2201 and 4703, 5.2; and 40CFR Part 64] Federally Enforceable Through Title V Permit
18. Compliance with PM10 (hourly) emission limit shall be demonstrated by sample collection taken by independent testing laboratory within 60 days upon visible emissions in excess of 5% opacity from turbine exhaust. The District shall be notified prior to any sampling event. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Compliance with the ammonia slip (ppmv) emission limits shall be demonstrated by sample collection taken by independent testing laboratory annually within 60 days prior to permit anniversary date. The District shall be notified prior to the completion of any sampling event. Official test results and field data collection shall be submitted to the District within 60 days of testing. [District Rule 4102]
20. Any lube oil cooler/accumulating vent having visible emissions with an opacity of 5% or greater shall be tested to demonstrated compliance with lube oil cooler/accumulating vent VOC hourly emissions limit. Official test results and field data collected shall be submitted within 60 days of testing. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Facilities shall demonstrate compliance with NOx and CO daily emissions limits by use of CEM data, fuel rate data, and daily hours of operation data. A written record of the required compliance demonstrations shall be maintained and made available for District inspection for a period of five years. [District Rules 2201 and 2520, 9.3.2 and 9.4.2 and 4702, 6.2.4 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
22. Startup and shutdown and reduced load period of the gas turbine, as defined in this permit, in 40 CFR Subpart A 60.2, and in Rule 4703 shall not exceed a time period of two hours and one hour, respectively, per occurrence. Emission concentrations subsequent to this startup period shall not exceed the limits specified in this permit, except during shutdown. [District Rule 4703, 3.19, 3.25, 5.1.2 and 40 CFR Subpart A 60.2] Federally Enforceable Through Title V Permit
23. CEM data can be used in addition to stack testing to determine compliance with the NOx and CO concentrations and daily emission rates. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

24. Operations during periods of startup and shutdown shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the emission limit shown in this permit during periods of startup and shutdown be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. This requirement only applies to the subsumed NOx and SO2 emission standards under NSPS subpart GG for Stationary Gas Turbines. [40 CFR 60.8(c)] Federally Enforceable Through Title V Permit
25. The circular cross section exhaust stack (after SCR unit) shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and equipped with flow straighteners, if necessary, to minimize turbulence. The facility shall comply with this and all applicable compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rules 2201 and 1081; 4703, 6.2.1 and Kern County Rule 108.1] Federally Enforceable Through Title V Permit
26. Source testing, for VOC (hourly), NOx concentration and CO concentration shall be conducted annually. Compliance source testing shall be conducted under conditions representative of normal operation [District Rules 2201 and 4703, 5.1, 5.2 & 6.3; 40 CFR 60.332(a) & (b) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
27. Nitrogen oxides (NOx) concentrations from each of the gas turbine exhaust shall be determined using EPA Method 7E or 20, and oxygen (O2) concentration shall be determined using EPA Method 3, 3A, or 20. Carbon monoxide (CO) emissions shall be determined using EPA Test Methods 10 or 10B. Source test results will be provided to the district annually. EPA approved alternate test methods may also be used to address the source testing requirement of this permit. [District Rules 1081; 2520, 9.3; 4703, 5.1, 5.2 & 6.4 and 40 CFR Subpart GG, 60.335(b), (c)] Federally Enforceable Through Title V Permit
28. The facility shall comply with the applicable requirements for quality assurance testing and maintenance of the CEM equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. [District Rules 1080; 4703, 6.2.3; 40 CFR Part 60 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
29. CEM results 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 Rules 1080, 7.2; 4703, 6.2.3; Kern County Rule 108 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
30. Except for NOx and CO emission data obtained for compliance demonstration purposes, CEM data shall be averaged in accordance with the requirements specified under 40 CFR Part 60.13. Compliance results for NOx and CO shall be averaged over a three hour period. [District Rule 4703, 5.0, 6.2.3 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
31. Records shall be maintained and shall contain: the occurrence and duration of any startup, shutdown, or malfunction; performance testing, evaluations, calibrations, checks, adjustments, any period during which a continuous monitoring system or monitoring device was inoperative, maintenance of any CEM that have been installed pursuant to District Rule 1080; emission measurements, and daily actual local startup and stop time, length and reason for reduced load periods, total hours of operation and daily quantity of fuel used. [District Rules 1080; 4703, 6.2.6, 7.3; Kern County Rule 108; 40 CFR 60.332(a), (b); and 40 CFR Part 64] Federally Enforceable Through Title V Permit
32. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: SJVUAPCD Rules 1080, sections 4.0, 6.5, 7.2, 7.3, 8.0, 9.0, and 10.0 (Amended December 17, 1992); 1081 (Amended December 16, 1993); 4201 (Amended December 17, 1992); 4703 sections 5.0, 5.1, 5.2, 6.2.1, 6.2.2, 6.2.4, 6.3, and 6.4 (Amended September 20, 2007); 4801 (Amended December 17, 1992); 40 CFR 60.332(a),(b); 60.333(a),(b),(c); 60.334(a),(c); and 60.335(b),(c); and 40 CFR 64. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
33. Gas-fired turbine shall be equipped with carbon monoxide (CO) catalytic oxidizer. [District Rules 2201 and 4703, 5.2 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
34. All permits issued to facilities S-172, S-1118, S-1119, S-1120 and S-2049 are included in the same heavy oil central stationary source. [District Rule 2201] Federally Enforceable Through Title V Permit

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

35. Operators of CEMS 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: 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; and a negative declaration when no excess emissions occurred. [District Rules 1080, 8.0; 2520, 9.6.1; Rule Kern County Rule 108; 40 CFR 60.7(c) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
36. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. Official test results and field data collected by source tests required by conditions on this permit shall be submitted to the District within 60 days of testing. [District Rules 1081, 7.0; 4703, 6.3 and Kern County Rule 108.1] Federally Enforceable Through Title V Permit
37. Facility shall maintain on file copies of all natural gas fuel invoices, natural gas bills, gas purchase contracts, supplier certifications, and test results used to determine compliance with the requirements of this permit unit. Certification of the sulfur content by the gas supplier will be an acceptable alternative for verifying compliance. [District Rules 2520, 9.3.2; 4801; Kern County Rule 407; 40 CFR 60.332(a); 60.333(a) & (b) and 40 CFR Part 60.334(b)(2)] Federally Enforceable Through Title V Permit
38. All CEMS data required to comply with the conditions in this permit shall be rounded to the same number of significant digits as the specified limits, but not less than two significant digits. [40 CFR 60.13(h) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
39. The total particulate matter (PM) emissions from the gas turbine exhaust shall not exceed 0.1 gr/dscf. [District Rule 4201; Kern County Rule 404] Federally Enforceable Through Title V Permit
40. A written record of the compliance demonstration with NOx and CO daily emissions limits during gas turbine engine startup/shutdown shall be maintained and made available for District inspection for a period of five years. [District Rules 2201 and 2520, 9.4.2 and 4703, 6.2.4] Federally Enforceable Through Title V Permit

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

DRAFT

ATTACHMENT B

Previous Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: S-1120-0-3

EXPIRATION DATE: 02/29/2016

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; Kern County Rule 111]
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 Kern County Rule 111]
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 (12/20/07). [District Rules 2010, 3.0 and 4.0; 2020 and Kern County Rule 201] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.12.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: KERN FRONT LIMITED
Location: HEAVY OIL CENTRAL, KERN FRONT, CA
S-1120-0-3; Jul 14 2016 9:27AM - DAVIDSOS

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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials for architectural coatings subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR 82, Subpart B. [40 CFR 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 50 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day shall comply with the requirements of Section 5.1.2 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

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

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following outdated SIP requirements: Kern County Rule 401, Kern County Rule 111, Kern County Rules 201, 202, 203, 204, 208, and 209, Kern County Rule 410.1, and Kern County Rule 423. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (11/15/01); 4601, sections 5.1, 5.2, 5.3, 5.8 and 8.0 (12/17/09); 8021 (8/19/04); 8031 (8/19/04); 8041 (8/19/04); 8051 (8/19/04); 8061 (8/19/04); and 8071 (8/19/04). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. Facility shall notify the APCO of a violation of any emission standards indicated by the CEMs within 96 hours of occurrence. The APCO shall be notified within 8 hours after detection of a breakdown in monitoring equipment and 24 hours prior to a planned shut down of monitoring equipment. [District Rule 2520, 9.6.2; Rule 1080, 9.0 and 10.0; Kern County Rule 108; 40 CFR 60.334(c) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
43. An owner or operator shall not use organic solvents for cleaning operations that exceed the VOC content limits specified as follows: A) Product cleaning during manufacturing process or surface preparation for adhesive application; 1) general, 25 g/l (0.21 lb/gal) and 2) electrical apparatus components and electronic components, 100 g/l (0.84 lb/gal); B) repair and maintenance cleaning, 1) 25 g/l (0.21 lb/gal) and 2) electrical apparatus components and electronic components 100 g/l (0.84 lb/gal); C) cleaning of coating or adhesive application equipment, 25 g/l (0.21 lb/gal) [District Rule 4663, 5.1] Federally Enforceable Through Title V Permit
44. Cleaning activities that use solvents with a VOC content greater than 25 g/l (0.21 lb/gallon) shall be performed by one or more of the following methods: 1) wipe cleaning; 2) application of solvent from hand-held spray bottles from which solvents are dispensed without a propellant-induced force; 3) non-atomized solvent flow method in which the cleaning solvent is collected in a container or a collection system which is closed except for solvent collection openings and, if necessary, openings to avoid excessive pressure build-up inside the container, or; 4) solvent flushing method in which the cleaning solvent is discharged into a container that is closed except for solvent collection openings and, if necessary, openings to avoid excessive pressure build-up inside the container. The discharged solvent from the equipment must be collected into containers without atomizing into the open air. The solvent may be flushed through the system by air or hydraulic pressure, or by pumping. [District Rule 4663, 5.2.5] Federally Enforceable Through Title V Permit
45. Solvent shall not be atomized into the open air unless it is vented to a VOC emission control system. This provision shall not apply to the cleaning of nozzle tips of automated spray equipment systems, except for robotic systems, and cleaning with spray bottles or containers described elsewhere in this permit. [District Rule 4663, 5.2.6] 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.

46. An owner or operator shall not use VOC-containing materials to clean spray equipment used for the application of coatings, adhesives, or ink, unless an enclosed system or equipment that is proven to be equally effective at controlling emissions is used for cleaning. If an enclosed system is used, it must totally enclose spray guns, cups, nozzles, bowls, and other parts during washing, rinsing and draining procedures, and it must be used according to the manufacturer's recommendations and must be closed when not in use. [District Rule 4663, 5.2.7] Federally Enforceable Through Title V Permit
47. All fresh or spent solvents, waste solvent cleaning materials such as cloth, paper, etc., coatings, adhesives, catalysts and thinners shall be stored in closed, non-absorbent and non-leaking containers. [District Rule 4663, 5.4] Federally Enforceable Through Title V Permit
48. In lieu of complying with the requirements in Table 1, an owner or operator may comply with this rule by using a VOC emission collection and control system in association with the solvent cleaning operation as provided in District Rule 4663, 5.2 (Adopted September 20, 2007). [District Rule 4663, 5.3] Federally Enforceable Through Title V Permit
49. An owner or operator shall maintain the records required by District Rule 4663, Sections 6.2.2 through 6.2.6 (Amended September 20, 2007) at the stationary source for a period of five years. The records shall be made available to the APCO upon request. [District Rules 1070 and 4663, 6.2.1] Federally Enforceable Through Title V Permit
50. The VOC content of solvents and organic materials shall be determined by using United States Environmental Protection Agency (EPA) Test Method 24 or 24A, or South Coast Air Quality Management District (SCAQMD) Method 304 (Determination of Volatile Organic compounds in Various Materials), or by using the manufacturer's product formulation data and the formula for "Grams of VOC per liter of Material" in Section 3.0. [District Rule 4663, 6.3.1.1] Federally Enforceable Through Title V Permit
51. The content of exempt halogenated VOCs shall be determined by using the California Air Resources Board (ARB) Test Method 432 or SCAQMD Test Method 303 (Determination of Exempt Compounds). [District Rule 4663, 6.3.1.2] Federally Enforceable Through Title V Permit
52. The facility shall comply with all applicable requirements regarding preparation and implementation of a Risk Management Plan and shall abide by all applicable sections of 40 CFR Part 68. [40 CFR Part 68] Federally Enforceable Through Title V Permit
53. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin January 1 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1120-1-13

EXPIRATION DATE: 02/29/2016

SECTION: 02 TOWNSHIP: 28S RANGE: 27E

EQUIPMENT DESCRIPTION:

NOMINALLY RATED 25 MW GENERAL ELECTRIC LM-2500 NATURAL GAS FIRED GAS TURBINE ENGINE
COGENERATION SYSTEM WITH STEAM INJECTION

PERMIT UNIT REQUIREMENTS

1. Except during system breakdowns, repairs and maintenance, calibration checks, and zero and span adjustments, the continuous emission monitoring system shall be in continuous operation. NOx emissions in ppmv (corrected to 15% O2) and O2 concentrations must be recorded continuously (except as noted before) and data shall be reduced to 15 minute averages per 40 CFR Part 60.13(e)(2). [District Rule 2201; 40 CFR 60.486 paragraph b, c and d and 40 CFR Part 64] Federally Enforceable Through Title V Permit
2. Unfired heat recovery steam generator turbine exhaust for the unit shall be equipped with continuous emissions monitors (CEM) for NOx, CO, and O2. The continuous NOx monitoring system shall meet the performance specification requirements in 40 CFR, Part 60, Appendix B, Spec 2, 40 CFR Part 60, Appendix F, 40 CFR Part 51, Appendix P, and 40 CFR Part 60.7(c), 60.7(d) and 60.13 or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rules 2201 and 1080; 4703, 6.2.1, 6.2.3; Kern County Rule 108; 40 CFR Part 60 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
3. Gas-fired turbine shall be equipped with combustor steam injection and a selective catalytic reduction (SCR) system utilizing ammonia as the reducing agent. [District Rules 2201 and 4703, 5.1] Federally Enforceable Through Title V Permit
4. Gas turbine combustor steam injection system shall be equipped with continuously recording steam and fuel injection rate monitoring system, accurate to within +/- 5%. [District Rules 2201 and 4703, 6.2.1 and 40 CFR 60.334(a)] Federally Enforceable Through Title V Permit
5. Audits of monitors shall be conducted quarterly, except during quarters in which RATA 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 the quarterly compliance reports to the District. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The gas turbine shall be fired exclusively with PUC regulated or FERC regulated natural gas, with fuel gas sulfur content not to exceed 1 grain S/100 scf. [District Rules 2520, 9.3.2; 4801; 40 CFR 60.332(a) and 60.333(a) & (b); CFR 60.332(a); Kern County Rule 407] Federally Enforceable Through Title V Permit
7. Gas turbine steam injection rate shall be maintained at a steam to fuel ratio which results in compliance with emissions limits, except during periods of startup, shutdown, and malfunction as defined in this permit. Only malfunctions as defined in 40 CFR 60 qualify for this exemption. [40 CFR Part 60, Subpart A and 40 CFR Part 64] Federally Enforceable Through Title V Permit
8. Ammonia injection rate shall be controlled to maintain ammonia slip to less than 20 ppmv. [District Rule 4102]
9. Gas turbine engine shall not be operated unless steam injection system, selective catalytic reduction system, and oxidation catalyst system are operating, except during periods of startup and shutdown as defined herein. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. Inlet gas temperature to catalyst bed shall be maintained within range recommended by catalyst manufacturer except during periods of startup and shutdown as defined herein. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
11. All gas turbine exhaust shall flow through both catalyst beds. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Gas turbine and generator lube oil atmospheric vents shall be equipped with mist eliminators. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Liquids collected from lube oil system (including atmospheric vent) shall be stored in closed containers such that VOC emissions do not occur. [District Rule 2201] Federally Enforceable Through Title V Permit
14. The emission rate from the gas turbine exhaust shall not exceed the following: PM10: 74.88 lb/day and 3.12 lb/hr, NOx (as NO2): 96.96 lb/day, SOx (as SO2): 17.1 lb/day, and CO: 669.19 lb/day. [District Rules 2201 and 4201; 4703, 5.1, 5.2; 40 CFR Part 60.332(a) and 333(b); and 40CFR Part 64] Federally Enforceable Through Title V Permit
15. Nitrogen oxides (as NO2) concentration from the gas turbine exhaust stack shall not exceed 4.5 ppmv dry calculated to 15% O2, except during periods of startup and shutdown. [District Rules 2201 and 4703, 5.1 and 40 CFR Part 60.332(a)] Federally Enforceable Through Title V Permit
16. Total VOC emissions, including those from the gas turbine exhaust and lube oil vents shall not exceed 3.12 lb/hr and 74.84 lb/day, except during periods of startup and shutdown. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Carbon monoxide (CO) concentration from the gas turbine exhaust stack shall not exceed 51 ppmv dry calculated to 15% O2, except during periods of startup and shutdown. [District Rules 2201 and 4703, 5.2; and 40CFR Part 64] Federally Enforceable Through Title V Permit
18. Compliance with PM10 (hourly) emission limit shall be demonstrated by sample collection taken by independent testing laboratory within 60 days upon visible emissions in excess of 5% opacity from turbine exhaust. The District shall be notified prior to any sampling event. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Compliance with the ammonia slip (ppmv) emission limits shall be demonstrated by sample collection taken by independent testing laboratory annually within 60 days prior to permit anniversary date. The District shall be notified prior to the completion of any sampling event. Official test results and field data collection shall be submitted to the District within 60 days of testing. [District Rule 4102]
20. Any lube oil cooler/accumulating vent having visible emissions with an opacity of 5% or greater shall be tested to demonstrated compliance with lube oil cooler/accumulating vent VOC hourly emissions limit. Official test results and field data collected shall be submitted within 60 days of testing. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Facilities shall demonstrate compliance with NOx and CO daily emissions limits by use of CEM data, fuel rate data, and daily hours of operation data. A written record of the required compliance demonstrations shall be maintained and made available for District inspection for a period of five years. [District Rules 2201 and 2520, 9.3.2 and 9.4.2 and 4703, 6.2.4 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
22. Startup and shutdown and reduced load period of the gas turbine, as defined in this permit, in 40 CFR Subpart A 60.2, and in Rule 4703 shall not exceed a time period of two hours and one hour, respectively, per occurrence. Emission concentrations subsequent to this startup period shall not exceed the limits specified in this permit, except during shutdown. [District Rule 4703, 3.23, 3.26, 3.29 and 40 CFR Subpart A 60.2] Federally Enforceable Through Title V Permit
23. CEM data can be used in addition to stack testing to determine compliance with the NOx and CO concentrations and daily emission rates. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

24. Operations during periods of startup and shutdown shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the emission limit shown in this permit during periods of startup and shutdown be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. This requirement only applies to the subsumed NOx and SO2 emission standards under NSPS subpart GG for Stationary Gas Turbines. [40 CFR 60.8(c)] Federally Enforceable Through Title V Permit
25. The circular cross section exhaust stack (after SCR unit) shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and equipped with flow straighteners, if necessary, to minimize turbulence. The facility shall comply with this and all applicable compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rules 2201 and 1081; 4703, 6.2.1 and Kern County Rule 108.1] Federally Enforceable Through Title V Permit
26. Source testing, for VOC (hourly), NOx concentration and CO concentration shall be conducted annually. Compliance source testing shall be conducted under conditions representative of normal operation [District Rules 2201 and 4703, 5.1, 5.2 & 6.3; 40 CFR 60.332(a) & (b) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
27. Nitrogen oxides (NOx) concentrations from each of the gas turbine exhaust shall be determined using EPA Method 7E or 20, and oxygen (O2) concentration shall be determined using EPA Method 3, 3A, or 20. Carbon monoxide (CO) emissions shall be determined using EPA Test Methods 10 or 10B. Source test results will be provided to the district annually. EPA approved alternate test methods may also be used to address the source testing requirement of this permit. [District Rules 1081; 2520, 9.3; 4703, 5.1, 5.2 & 6.4 and 40 CFR Subpart GG, 60.335(b), (c)] Federally Enforceable Through Title V Permit
28. The facility shall comply with the applicable requirements for quality assurance testing and maintenance of the CEM equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. [District Rules 1080; 4703, 6.2.3; 40 CFR Part 60 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
29. CEM results 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 Rules 1080, 7.2; 4703, 6.2.3; Kern County Rule 108 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
30. Except for NOx and CO emission data obtained for compliance demonstration purposes, CEM data shall be averaged in accordance with the requirements specified under 40 CFR Part 60.13. Compliance results for NOx and CO shall be averaged over a three hour period. [District Rule 4703, 5.0, 6.2.3 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
31. Records shall be maintained and shall contain: the occurrence and duration of any startup, shutdown, or malfunction; performance testing, evaluations, calibrations, checks, adjustments, any period during which a continuous monitoring system or monitoring device was inoperative, maintenance of any CEM that have been installed pursuant to District Rule 1080; emission measurements, and daily actual local startup and stop time, length and reason for reduced load periods, total hours of operation and daily quantity of fuel used. [District Rules 1080; 4703, 6.2.6, 7.3; Kern County Rule 108; 40 CFR 60.332(a), (b); and 40 CFR Part 64] Federally Enforceable Through Title V Permit
32. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: SJVUAPCD Rules 1080, sections 4.0, 6.5, 7.2, 7.3, 8.0, 9.0, and 10.0 (Amended December 17, 1992); 1081 (Amended December 16, 1993); 4201 (Amended December 17, 1992); 4703 sections 5.0, 5.1, 5.2, 6.2.1, 6.2.2, 6.2.4, 6.3, and 6.4 (Amended September 20, 2007); 4801 (Amended December 17, 1992); 40 CFR 60.332(a),(b); 60.333(a),(b),(c); 60.334(a),(c); and 60.335(b),(c); and 40 CFR 64. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
33. Gas-fired turbine shall be equipped with carbon monoxide (CO) catalytic oxidizer. [District Rules 2201 and 4703, 5.2 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
34. All permits issued to facilities S-172, S-1118, S-1119, S-1120 and S-2049 are included in the same heavy oil central stationary source. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

35. Operators of CEMS 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: 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; and a negative declaration when no excess emissions occurred. [District Rules 1080, 8.0; 2520, 9.6.1; Rule Kern County Rule 108; 40 CFR 60.7(c) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
36. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. Official test results and field data collected by source tests required by conditions on this permit shall be submitted to the District within 60 days of testing. [District Rules 1081, 7.0; 4703, 6.3 and Kern County Rule 108.1] Federally Enforceable Through Title V Permit
37. Facility shall maintain on file copies of all natural gas fuel invoices, natural gas bills, gas purchase contracts, supplier certifications, and test results used to determine compliance with the requirements of this permit unit. Certification of the sulfur content by the gas supplier will be an acceptable alternative for verifying compliance. [District Rules 2520, 9.3.2; 4801; Kern County Rule 407; 40 CFR 60.332(a); 60.333(a) & (b) and 40 CFR Part 60.334(b)(2)] Federally Enforceable Through Title V Permit
38. All CEMS data required to comply with the conditions in this permit shall be rounded to the same number of significant digits as the specified limits, but not less than two significant digits. [40 CFR 60.13(h) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
39. The total particulate matter (PM) emissions from the gas turbine exhaust shall not exceed 0.1 gr/dscf. [District Rule 4201; Kern County Rule 404] Federally Enforceable Through Title V Permit
40. A written record of the compliance demonstration with NOx and CO daily emissions limits during gas turbine engine startup/shutdown shall be maintained and made available for District inspection for a period of five years. [District Rules 2201 and 2520, 9.4.2 and 4703, 6.2.4] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1120-2-12

EXPIRATION DATE: 02/29/2016

SECTION: 02 TOWNSHIP: 28S RANGE: 27E

EQUIPMENT DESCRIPTION:

NOMINALLY RATED 25 MW GENERAL ELECTRIC LM-2500 NATURAL GAS FIRED GAS TURBINE ENGINE
COGENERATION SYSTEM WITH STEAM INJECTION

PERMIT UNIT REQUIREMENTS

1. Except during system breakdowns, repairs and maintenance, calibration checks, and zero and span adjustments, the continuous emission monitoring system shall be in continuous operation. NOx emissions in ppmv (corrected to 15% O2) and O2 concentrations must be recorded continuously (except as noted before) and data shall be reduced to 15 minute averages per 40 CFR Part 60.13(e)(2). [District Rule 2201; 40 CFR 60.486 paragraph b, c and d and 40 CFR Part 64] Federally Enforceable Through Title V Permit
2. Unfired heat recovery steam generator turbine exhaust for the unit shall be equipped with continuous emissions monitors (CEM) for NOx, CO, and O2. The continuous NOx monitoring system shall meet the performance specification requirements in 40 CFR, Part 60, Appendix B, Spec 2, 40 CFR Part 60, Appendix F, 40 CFR Part 51, Appendix P, and 40 CFR Part 60.7(c), 60.7(d) and 60.13 or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rules 2201 and 1080; 4703, 6.2.1, 6.2.3; Kern County Rule 108; 40 CFR Part 60 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
3. Gas-fired turbine shall be equipped with combustor steam injection and a selective catalytic reduction (SCR) system utilizing ammonia as the reducing agent. [District Rules 2201 and 4703, 5.1] Federally Enforceable Through Title V Permit
4. Gas turbine combustor steam injection system shall be equipped with continuously recording steam and fuel injection rate monitoring system, accurate to within +/- 5%. [District Rules 2201 and 4703, 6.2.1 and 40 CFR 60.334(a)] Federally Enforceable Through Title V Permit
5. Audits of monitors shall be conducted quarterly, except during quarters in which RATA 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 the quarterly compliance reports to the District. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The gas turbine shall be fired exclusively with PUC regulated or FERC regulated natural gas, with fuel gas sulfur content not to exceed 1 grain S/100 scf. [District Rules 2520, 9.3.2; 4801; 40 CFR 60.332(a) and 60.333(a) & (b); CFR 60.332(a); Kern County Rule 407] Federally Enforceable Through Title V Permit
7. Gas turbine steam injection rate shall be maintained at a steam to fuel ratio which results in compliance with emissions limits, except during periods of startup, shutdown, and malfunction as defined in this permit. Only malfunctions as defined in 40 CFR 60 qualify for this exemption. [40 CFR Part 60, Subpart A and 40 CFR Part 64] Federally Enforceable Through Title V Permit
8. Ammonia injection rate shall be controlled to maintain ammonia slip to less than 20 ppmv. [District Rule 4102]
9. Gas turbine engine shall not be operated unless steam injection system, selective catalytic reduction system, and oxidation catalyst system are operating, except during periods of startup and shutdown as defined herein. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. Inlet gas temperature to catalyst bed shall be maintained within range recommended by catalyst manufacturer except during periods of startup and shutdown as defined herein. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
11. All gas turbine exhaust shall flow through both catalyst beds. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Gas turbine and generator lube oil atmospheric vents shall be equipped with mist eliminators. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Liquids collected from lube oil system (including atmospheric vent) shall be stored in closed containers such that VOC emissions do not occur. [District Rule 2201] Federally Enforceable Through Title V Permit
14. The emission rate from the gas turbine exhaust shall not exceed the following: PM10: 74.88 lb/day and 3.12 lb/hr, NOx (as NO2): 96.96 lb/day, SOx (as SO2): 17.1 lb/day, and CO: 669.19 lb/day. [District Rules 2201 and 4201; 4703, 5.1, 5.2; 40 CFR Part 60.332(a) and 333(b); and 40CFR Part 64] Federally Enforceable Through Title V Permit
15. Nitrogen oxides (as NO2) concentration from the gas turbine exhaust stack shall not exceed 4.5 ppmv dry calculated to 15% O2, except during periods of startup and shutdown. [District Rules 2201 and 4703, 5.1 and 40 CFR Part 60.332(a)] Federally Enforceable Through Title V Permit
16. Total VOC emissions, including those from the gas turbine exhaust and lube oil vents shall not exceed 3.12 lb/hr and 74.84 lb/day, except during periods of startup and shutdown. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Carbon monoxide (CO) concentration from the gas turbine exhaust stack shall not exceed 51 ppmv dry calculated to 15% O2, except during periods of startup and shutdown. [District Rules 2201 and 4703, 5.2; and 40CFR Part 64] Federally Enforceable Through Title V Permit
18. Compliance with PM10 (hourly) emission limit shall be demonstrated by sample collection taken by independent testing laboratory within 60 days upon visible emissions in excess of 5% opacity from turbine exhaust. The District shall be notified prior to any sampling event. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Compliance with the ammonia slip (ppmv) emission limits shall be demonstrated by sample collection taken by independent testing laboratory annually within 60 days prior to permit anniversary date. The District shall be notified prior to the completion of any sampling event. Official test results and field data collection shall be submitted to the District within 60 days of testing. [District Rule 4102]
20. Any lube oil cooler/accumulating vent having visible emissions with an opacity of 5% or greater shall be tested to demonstrated compliance with lube oil cooler/accumulating vent VOC hourly emissions limit. Official test results and field data collected shall be submitted within 60 days of testing. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Facilities shall demonstrate compliance with NOx and CO daily emissions limits by use of CEM data, fuel rate data, and daily hours of operation data. A written record of the required compliance demonstrations shall be maintained and made available for District inspection for a period of five years. [District Rules 2201 and 2520, 9.3.2 and 9.4.2 and 4702, 6.2.4 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
22. Startup and shutdown and reduced load period of the gas turbine, as defined in this permit, in 40 CFR Subpart A 60.2, and in Rule 4703 shall not exceed a time period of two hours and one hour, respectively, per occurrence. Emission concentrations subsequent to this startup period shall not exceed the limits specified in this permit, except during shutdown. [District Rule 4703, 3.19, 3.25, 5.1.2 and 40 CFR Subpart A 60.2] Federally Enforceable Through Title V Permit
23. CEM data can be used in addition to stack testing to determine compliance with the NOx and CO concentrations and daily emission rates. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

24. Operations during periods of startup and shutdown shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the emission limit shown in this permit during periods of startup and shutdown be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. This requirement only applies to the subsumed NOx and SO2 emission standards under NSPS subpart GG for Stationary Gas Turbines. [40 CFR 60.8(c)] Federally Enforceable Through Title V Permit
25. The circular cross section exhaust stack (after SCR unit) shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and equipped with flow straighteners, if necessary, to minimize turbulence. The facility shall comply with this and all applicable compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rules 2201 and 1081; 4703, 6.2.1 and Kern County Rule 108.1] Federally Enforceable Through Title V Permit
26. Source testing, for VOC (hourly), NOx concentration and CO concentration shall be conducted annually. Compliance source testing shall be conducted under conditions representative of normal operation [District Rules 2201 and 4703, 5.1, 5.2 & 6.3; 40 CFR 60.332(a) & (b) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
27. Nitrogen oxides (NOx) concentrations from each of the gas turbine exhaust shall be determined using EPA Method 7E or 20, and oxygen (O2) concentration shall be determined using EPA Method 3, 3A, or 20. Carbon monoxide (CO) emissions shall be determined using EPA Test Methods 10 or 10B. Source test results will be provided to the district annually. EPA approved alternate test methods may also be used to address the source testing requirement of this permit. [District Rules 1081; 2520, 9.3; 4703, 5.1, 5.2 & 6.4 and 40 CFR Subpart GG, 60.335(b), (c)] Federally Enforceable Through Title V Permit
28. The facility shall comply with the applicable requirements for quality assurance testing and maintenance of the CEM equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. [District Rules 1080; 4703, 6.2.3; 40 CFR Part 60 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
29. CEM results 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 Rules 1080, 7.2; 4703, 6.2.3; Kern County Rule 108 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
30. Except for NOx and CO emission data obtained for compliance demonstration purposes, CEM data shall be averaged in accordance with the requirements specified under 40 CFR Part 60.13. Compliance results for NOx and CO shall be averaged over a three hour period. [District Rule 4703, 5.0, 6.2.3 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
31. Records shall be maintained and shall contain: the occurrence and duration of any startup, shutdown, or malfunction; performance testing, evaluations, calibrations, checks, adjustments, any period during which a continuous monitoring system or monitoring device was inoperative, maintenance of any CEM that have been installed pursuant to District Rule 1080; emission measurements, and daily actual local startup and stop time, length and reason for reduced load periods, total hours of operation and daily quantity of fuel used. [District Rules 1080; 4703, 6.2.6, 7.3; Kern County Rule 108; 40 CFR 60.332(a), (b); and 40 CFR Part 64] Federally Enforceable Through Title V Permit
32. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: SJVUAPCD Rules 1080, sections 4.0, 6.5, 7.2, 7.3, 8.0, 9.0, and 10.0 (Amended December 17, 1992); 1081 (Amended December 16, 1993); 4201 (Amended December 17, 1992); 4703 sections 5.0, 5.1, 5.2, 6.2.1, 6.2.2, 6.2.4, 6.3, and 6.4 (Amended September 20, 2007); 4801 (Amended December 17, 1992); 40 CFR 60.332(a),(b); 60.333(a),(b),(c); 60.334(a),(c); and 60.335(b),(c); and 40 CFR 64. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
33. Gas-fired turbine shall be equipped with carbon monoxide (CO) catalytic oxidizer. [District Rules 2201 and 4703, 5.2 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
34. All permits issued to facilities S-172, S-1118, S-1119, S-1120 and S-2049 are included in the same heavy oil central stationary source. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

35. Operators of CEMS 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: 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; and a negative declaration when no excess emissions occurred. [District Rules 1080, 8.0; 2520, 9.6.1; Rule Kern County Rule 108; 40 CFR 60.7(c) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
36. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. Official test results and field data collected by source tests required by conditions on this permit shall be submitted to the District within 60 days of testing. [District Rules 1081, 7.0; 4703, 6.3 and Kern County Rule 108.1] Federally Enforceable Through Title V Permit
37. Facility shall maintain on file copies of all natural gas fuel invoices, natural gas bills, gas purchase contracts, supplier certifications, and test results used to determine compliance with the requirements of this permit unit. Certification of the sulfur content by the gas supplier will be an acceptable alternative for verifying compliance. [District Rules 2520, 9.3.2; 4801; Kern County Rule 407; 40 CFR 60.332(a); 60.333(a) & (b) and 40 CFR Part 60.334(b)(2)] Federally Enforceable Through Title V Permit
38. All CEMS data required to comply with the conditions in this permit shall be rounded to the same number of significant digits as the specified limits, but not less than two significant digits. [40 CFR 60.13(h) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
39. The total particulate matter (PM) emissions from the gas turbine exhaust shall not exceed 0.1 gr/dscf. [District Rule 4201; Kern County Rule 404] Federally Enforceable Through Title V Permit
40. A written record of the compliance demonstration with NOx and CO daily emissions limits during gas turbine engine startup/shutdown shall be maintained and made available for District inspection for a period of five years. [District Rules 2201 and 2520, 9.4.2 and 4703, 6.2.4] Federally Enforceable Through Title V Permit

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

ATTACHMENT C

Detailed Facility List

Detailed Facility Report

For Facility=1120

Sorted by Facility Name and Permit Number

KERN FRONT LIMITED HEAVY OIL CENTRAL KERN FRONT, CA	FAC # S 1120	TYPE TOXIC ID.	EXPIRE ON AREA
STATUS A	50127	02/29/2016	57
TELEPHONE 6613936885		INSP. DATE 06/17	

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-1120-1-13	25 MW	3020-08A F	1	8,941.00	8,941.00	A	NOMINALLY RATED 25 MW GENERAL ELECTRIC LM-2500 NATURAL GAS FIRED GAS TURBINE ENGINE COGENERATION SYSTEM WITH STEAM INJECTION
S-1120-2-12	25 MW	3020-08A F	1	8,941.00	8,941.00	A	NOMINALLY RATED 25 MW GENERAL ELECTRIC LM-2500 NATURAL GAS FIRED GAS TURBINE ENGINE COGENERATION SYSTEM WITH STEAM INJECTION

Number of Facilities Reported: 1