



JUN 21 2013

Mr Ron Cook
Bear Mountain Limited
34759 Lencioni Ave
Bakersfield, CA 93308

Re: Notice of Preliminary Decision – Title V Permit Renewal
District Facility # S-2049
Project # S-1123306

Dear Mr Cook:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Bear Mountain Limited at 7001 Camino Grande 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 Jim Swaney, Permit Services Manager, at (559) 230-5900

Sincerely,



David Warner
Director of Permit Services

Enclosures

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

Seyed Sadredin
Executive Director/Air Pollution Control Officer

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

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

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

Newspaper notice for publication in Bakersfield Californian and for posting on valleyair.org

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

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District solicits public comment on the proposed renewal of the Federally Mandated Operating Permit to Bear Mountain Limited at 7001 Camino Grande Road, Bakersfield, California

The District's analysis of the legal and factual basis for this proposed action, project #S-1123306, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and at any District office. There are no emission changes associated with this proposed action. This will be the public's only opportunity to comment on the specific conditions of the proposed renewal of the Federally Mandated Operating permit. If requested, the District will hold a public hearing regarding issuance of this renewed permit. For additional information, please contact the District at (559) 230-6000. Written comments on the proposed initial permit must be submitted by July 26, 2013 to **DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 EAST GETTYSBURG AVENUE, FRESNO, CA 93726.**

SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

Proposed Title V Permit Renewal Evaluation Bear Mountain LTD S-2049

TABLE OF CONTENTS

I	PROPOSAL	2
II	FACILITY LOCATION	2
III	EQUIPMENT LISTING	3
IV	GENERAL PERMIT TEMPLATE USAGE	3
V	SCOPE OF EPA AND PUBLIC REVIEW.....	3
VI	FEDERALLY ENFORCEABLE REQUIREMENTS	3
VII	REQUIREMENTS NOT FEDERALLY ENFORCEABLE	6
VIII	PERMIT REQUIREMENTS.....	6
IX	PERMIT SHIELD	12
X	PERMIT CONDITIONS	13
XI	ATTACHMENTS.....	13
A	DRAFT RENEWED TITLE V OPERATING PERMIT	
B	PREVIOUS TITLE V OPERATING PERMIT	
C	DETAILED FACILITY LIST	

TITLE V PERMIT RENEWAL EVALUATION
Steam and Electricity Cogeneration

Engineer: Andrea Ogden
Date: May 22, 2013

Facility Number: S-2049
Facility Name: Bear Mountain Ltd
Mailing Address: 34759 Lencioni Avenue
Bakersfield, CA 93308

Contact Name: Matthew Jalali
Phone: (661) 387-7802

Responsible Official: Ron Cook
Title: Plant Manager

Project # : S-1123306
Deemed Complete: August 23, 2012

I. PROPOSAL

Bear Mountain Ltd was issued a Title V permit on May 1, 1998. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the initial or previously 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

Bear Mountain Ltd is located at 10245 Oilfield Road in Bakersfield, CA

III. EQUIPMENT LISTING

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

IV. GENERAL PERMIT TEMPLATE USAGE

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

A. Template SJV-UM-0-3 Facility Wide Umbrella

The applicant has requested to utilize template No. SJV-UM-0-3, 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 templates that have been previously subject to EPA and public review. The terms and conditions from the model general permit templates are included in the proposed permit and are not subject to further EPA and public review.

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

The following permit conditions, including their underlying applicable requirements, originate from model general permit templates and are not subject to further EPA or public review.

Conditions 1 through 40 of the requirements for permit unit S-2049-0-3.

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated

- District Rule 2020, Exemptions
(amended March 21, 2002 ⇒ amended August 18, 2011)
- District Rule 2201, New and Modified Stationary Source Review Rule

(amended April 21, 2011)

- District Rule 2410, Prevention of Significant Deterioration
(adopted June 16, 2011, ⇒ effective November, 26, 2012)
- District Rule 4101, Visible Emissions
(amended November 15, 2001⇒ amended February 17, 2005)
- District Rule 4601, Architectural Coatings
(amended October 31, 2001 ⇒ amended December 17, 2009)
- District Rule 4663, Organic Solvent Degreasing Operations
(adopted December 20, 2001 ⇒ amended September 20, 2007)
- District Rule 4702, Internal Combustion Engines – Phase II
(amended January 18, 2007 ⇒ August 18, 2011)
- District Rule 4703, Stationary Gas Turbines
(amended April 25, 2002 ⇒ amended September 20, 2007)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas
(adopted November 15, 2001 ⇒ amended September 16, 2004)
- 40 CFR Part 63, Subpart ZZZZ- National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (amended March3, 2010)

B. Rules Not Updated

- District Rule 1080, Stack Monitoring (amended December 17, 1992)
- District Rule 1081, Source Sampling (amended December 16, 1993)
- District Rule 1100, Equipment Breakdown (amended December 17,1992)
- District Rule 1160, Emission Statements (adopted November 18, 1992)
- District Rule 2010, Permits Required (amended December 17, 1992)
- District Rule 2031, Transfer of Permits (amended December 17, 1992)
- District Rule 2040, Applications (amended December 17, 1992)

- District Rule 2070, Standards for Granting Applications (amended December 17, 1992)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 2520, Federally Mandated Operating Permits (June 21, 2001)
- District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)
- District Rule 4801, Sulfur Compounds (amended December 17, 1992)
- District Rule 8011, General Requirements (Adopted November 15, 2001)
- District Rule 8021, Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities (adopted November 15, 2001)
- District Rule 8031, Bulk Materials (adopted November 15, 2001)
- District Rule 8041, Carryout and Trackout (adopted November 15, 2001)
- District Rule 8051, Open Areas (adopted November 15, 2001)
- District Rule 8061, Paved and Unpaved Roads (adopted November 15, 2001)
- 40 CFR Part 60, Subpart GG, Standards of Performance of Stationary Gas Turbines (amended July 6, 2006)
- 40 CFR Part 60, Subpart KKKK, Standards of Performance for Stationary Combustion Turbines (amended July 6, 2006)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos (amended September 18, 2003)
- 40 CFR Part 68, Chemical Accident Prevention Provisions
- 40 CFR Part 82, Subpart B, Stratospheric Ozone (amended November 9, 2007)
- 40 CFR Part 82, Subpart F, Stratospheric Ozone

(amended June 18, 2008)

VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

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

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

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

Condition 41 of permit unit -0-3, is based on District Rule 4102 and will therefore not be discussed any further

VIII. PERMIT REQUIREMENTS

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

A. District Rule 2020 - Exemptions

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

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

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

- 1) Any change in hours of operation, production rate, or method of operation of an existing emissions unit, which would necessitate a change in permit conditions

- 2) Any structural change or addition to an existing emissions unit which would necessitate a change in permit conditions Routine replacement shall not be considered to be a structural change
- 3) An increase in emissions from an emissions unit caused by a modification of the Stationary Source when the emissions unit is not subject to a daily emissions limitation
- 4) Addition of any new emissions unit which is subject to District permitting requirements
- 5) A change in a permit term or condition proposed by an applicant to obtain an exemption from an applicable requirement to which the source would otherwise be subject

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

C. District Rule 2410 - Prevention of Significant Deterioration

The prevention of significant deterioration (PSD) program is a pre-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 purpose of this rule is to incorporate the federal Prevention of Significant Deterioration (PSD) rule requirements into the District's Rules and Regulations by incorporating the federal requirements by reference The provisions of this rule shall 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 facility or the equipment evaluated under this project is listed as one of the categories specified in 40 CFR 52 21 (b)(1)(i). Therefore the following PSD Major Source thresholds are applicable

PSD Major Source Determination (short tons/year)							
	NO2	VOC	SO2	CO	PM	PM10	CO2e
PSD Major Source Thresholds	100	100	100	100	100	100	100,000
PSD Major Source ? (Y/N)	No	No	No	No	No	No	No

The facility is not a new major source or a major modification for PSD for at least one pollutant. Therefore, the facility is not an existing major source for PSD and the requirements of this rule are not applicable at this time.

D. District Rule 2520 – Federally Mandated Operating Permits

The purpose of this rule is to provide for the following: An administrative mechanism for issuing operating permits for new and modified sources of air contaminants in accordance with requirements of 40 CFR Part 70. An administrative mechanism for issuing renewed operating permits for sources of air contaminants in accordance with requirements of 40 CFR Part 70. An administrative mechanism for revising, reopening, revoking, and terminating operating permits for sources of air contaminants in accordance with requirements of 40 CFR Part 70. An administrative mechanism for incorporating requirements authorized by preconstruction permits issued under District Rule 2201 (New and Modified Stationary Source Review) in a Part 70 permit as administrative amendments, provided that such permits meet procedural requirements substantially equivalent to the requirements of 40 CFR 70.7 and 70.8, and compliance requirements substantially equivalent to those contained in 40 CFR 70.6. The applicable federal and local requirements to appear on a single permit. Section 5.2 requires permittee submit applications for Title V permit renewal at least six months prior to permit expiration.

Greenhouse Gas Requirements

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

E. District Rule 4101 - Visible Emissions

District Rule 4101 has been submitted to the EPA to replace SIP approved Rule 401 (all counties of the SJVUAPCD). EPA made a preliminary determination that District Rule 4101 is "more stringent" than the county versions previously referenced, per correspondence dated August 20, 1996.

Section 5.0 prohibits the discharge of any air contaminant for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker in shade as that designated as No. 1 on the Ringelmann Chart, or is of such opacity as to obscure an observer's view to a degree equal to or greater than the smoke described in Section 5.1 of Rule 4101. Condition 22 of permit unit -0-3 and condition 7 of permit unit -2-6 ensure compliance with the requirements this rule.

F. District Rule 4663 – Organic Solvent Cleaning, Storage, and Disposal

The purpose of this rule is to limit the emissions of volatile organic compounds (VOCs) from organic solvent cleaning and from the storage and disposal of solvents and waste solvent materials

The provisions of this rule shall apply to any organic solvent cleaning performed outside a degreaser during the production, repair, maintenance, or servicing of parts, products, tools, machinery, equipment, or in general work areas at stationary sources. The rule shall also apply to the storage and disposal of all solvents and waste solvent materials at stationary sources

This rule was amended to lower the solvent's VOC content limits

Conditions 42 through 50 of permit unit -0-3 ensure compliance with this rule

G. District Rule 4702 - Internal Combustion Engines – Phase II

The purpose of District rule 4702 is to limit the emissions of nitrogen oxides (NO_x), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines

This rule applies to any internal combustion engine with a rated brake horsepower greater than 50 horsepower

Pursuant to Section 4.3, except for the requirements of Section 6.2.3, the requirements of this rule shall not apply to an internal combustion engine that meets the following conditions

- 1) The engine is operated exclusively to preserve or protect property, human life, or public health during a disaster or state of emergency, such as a fire or flood, and
- 2) Except for operations associated with Section 4.3.1.1, the engine is limited to operate no more than 100 hours per calendar year as determined by an operational nonresettable elapsed operating time meter, for periodic maintenance, periodic readiness testing, and readiness testing during and after repair work of the engine, and
- 3) The engine is operated with a nonresettable elapsed operating time meter. In lieu of installing a nonresettable time meter, the owner of an engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO. The owner of the engine shall properly maintain and operate the time meter or alternative device in accordance with the manufacturer's instructions

Therefore, the emergency IC engine will only have to meet the requirements of Section 6 2 3 of this Rule

Section 6 2 3 requires that an owner claiming an exemption under Section 4.2 or Section 4 3 shall maintain annual operating records. This information shall be retained for at least five years, shall be readily available, and submitted to the APCO upon request and at the end of each calendar year in a manner and form approved by the APCO.

Conditions 6, 13, 14, and 21 through 23 on PTO S-2049-2-6 ensure compliance with District Rule 4702.

H. District Rule 4703 - Stationary Gas Turbines

The purpose of this rule is to reduce NOx emissions from stationary gas turbines.

The amendments were limited in scope and were to allow operators the option to apply for more than two hours for each start-up or each shutdown or more than one hour for each reduced load period of a stationary gas turbine system.

Conditions 3, 7, 9, 16, 17, 18, 22, 46, 47, 50, 54, 55, and 56 of permit unit - 1-9 ensure compliance with this rule.

I. 40 CFR Part 64 - Compliance Assurance Monitoring (CAM)

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

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

a S-2049-1-9 – 48 MW Natural Gas-Fired Turbine Engine Cogeneration System

This permit unit is equipped with continuous emission monitors (CEMS) for NOx and CO, the pollutants for which it is considered a Major Source. Therefore this permit unit is exempt from CAM requirements.

b S-2049-2-6 – 208 HP Cummins Model 6BTA Diesel-Fired Emergency IC Engine Powering A Fire Water Pump

This permit unit is not equipped with add on controls, Therefore this permit unit is exempt from CAM requirements

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

Per §63 6603, subpart ZZZZ is implemented and enforced by the U S EPA, or a delegated authority such as a local air district The District has authority to implement this subpart via the Title V program for Major Sources The following conditions were added as conditions 6, 11 through 13, 15 through 17, 19, 20, and 23 to permit unit S-2049-2-6 to ensure compliance with this requirement

- 1 The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes [40 CFR 63 Subpart ZZZZ] - §63 6625(h)
2. The engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) [40 CFR 63 Subpart ZZZZ] - §63 6585/63 6595 (a)
- 3 The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first [40 CFR 63 Subpart ZZZZ] - §63 6603/63 6640 Table 2d, Row 4 a
- 4 The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] - §63 6603/63 6640 Table 2d, Row 4 b
- 5 The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary [40 CFR 63 Subpart ZZZZ] - §63 6603/63 6640 Table 2d, Row 4 c
- 6 {modified 3404} This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] - §63 6625 (f)

- 7 {modified 3495} This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] - §63.6640 (f)(ii)
- 8 The permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation [District Rule 1070 and 40 CFR 63 Subpart ZZZZ] - §63.6655(a)(2) and (a)(5)
- 9 The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new, viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis, if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine [40 CFR 63 Subpart ZZZZ] Y
- 10 {modified 3873} All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] - §63.6660

IX. PERMIT SHIELD

A permit shield legally protects a facility from enforcement of the shielded regulations when a source is in compliance with the terms and conditions of the Title V permit. Compliance with the terms and conditions of the Operating Permit

is considered compliance with all applicable requirements upon which those conditions are based, including those that have been subsumed

A. Requirements Addressed by Model General Permit Templates

By submitting Model General Permit Template SJV-UM-0-3 qualification form, the applicant has requested that a permit shield be granted for all the applicable requirements identified by the template. Therefore, the permit shields as granted in Model General Permit Template are included as conditions 39 and 40 of the facility-wide requirements (S-2049-0-3).

B. Requirements not Addressed by Model General Permit Templates

The applicant has not requested any permit shield other than as discussed above.

C. Obsolete Permit Shields From Existing Permit Requirements

The existing facility wide requirements (S-2049-0-2) contain permit shields as conditions 39 and 40. These permit shields have become obsolete since applicant has applied for umbrella template SJV-UM-0-3 and has been replaced permit shields granted as part of this template as discussed in section IX A 1 above.

The existing permit unit requirements (S-2049-1-8) contain permit shields as conditions 57 through 59. These permit shields were granted by use of template SJV GT-1-3 which is now obsolete and have been removed.

X. PERMIT CONDITIONS

See Attachment A - Draft Renewed Title V Operating Permit

XI. ATTACHMENTS

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

ATTACHMENT A

Draft Renewed Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: S-2049-0-3

EXPIRATION DATE: 04/30/2013

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] Federally Enforceable Through Title V Permit
- 2 The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7 0, Kern County Rule 111] Federally Enforceable Through Title V Permit
- 3 {4364} The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5 0] Federally Enforceable Through Title V Permit
- 4 {4365} Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3 0 and 4 0, and 2020] Federally Enforceable Through Title V Permit
- 5 {4366} The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification, or for denial of a permit renewal application. [District Rules 2070, 7 0, 2080, and 2520, 9 9.1 and 9 13 1] Federally Enforceable Through Title V Permit
- 6 {4367} A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
- 7 {4368} Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. {4369} The operator shall maintain records of required monitoring that include 1) the date, place, and time of sampling or measurement, 2) the date(s) analyses were performed, 3) the company or entity that performed the analysis, 4) the analytical techniques or methods used, 5) the results of such analysis, and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4 1] Federally Enforceable Through Title V Permit
- 9 {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name BEAR MOUNTAIN LIMITED
Location HEAVY OIL CENTRAL, KERN BLUFF
S 2049-0-3 Jun 11 2013 7:47AM -- OGDENA

- 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
- 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 Rule 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 Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District [District Rule 4601, 5 1] Federally Enforceable Through Title V Permit
- 24 {4385} All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use [District Rule 4601, 5 4] Federally Enforceable Through Title V Permit
- 25 {4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6 1 and 6 3 (12/17/09) [District Rule 4601, 6 1 and 6 3] Federally Enforceable Through Title V Permit
- 26 {4387} With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official [District Rule 2520, 9.13 1 and 10 0] Federally Enforceable Through Title V Permit
- 27 {4388} If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
- 28 {4389} If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
- 29 {4390} Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4 0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004) [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
- 30 {4391} Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4 0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004) [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
- 31 {4392} An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5 0, unless specifically exempted under Section 4 0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004) [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
- 32 {4393} Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4 0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004) [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
- 33 {4394} Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4 0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004) [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
- 34 {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5 1 1 of District Rule 8071 Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5 1 2 of District Rule 8071 On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5 1.3 of District Rule 8071 On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5 1 4 of District Rule 8071 All sources shall comply with the requirements of Section 5 0 of District Rule 8071 unless specifically exempted under Section 4 0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004) [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
- 35 {4396} Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61 141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61 145 (Standard for Demolition and Renovation) [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

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

36. {4397} The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District) The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source [District Rule 2520, 9 16] Federally Enforceable Through Title V Permit
- 37 {4398} The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date [District Rule 2520, 5 2] Federally Enforceable Through Title V Permit
- 38 {4399} When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9 1 1] Federally Enforceable Through Title V Permit
- 39 Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Kern County Rule 401 and Kern County Rule 111 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit
- 40 {4401} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements SJVUAPCD Rules 1100, sections 6 1 and 7 0 (12/17/92), 2010, sections 3.0 and 4 0 (12/17/92), 2031 (12/17/92), 2040 (12/17/92), 2070, section 7 0 (12/17/92), 2080 (12/17/92), 4101 (2/17/05), 4601 (12/17/09), 8021 (8/19/2004), 8031 (8/19/2004), 8041 (8/19/2004), 8051 (8/19/2004), 8061 (8/19/2004), and 8071 (9/16/2004) A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit
- 41 {98} No air contaminant shall be released into the atmosphere which causes a public nuisance [District Rule 4102]
- 42 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, 50 g/l (0 42 lb/gal) and 2) electrical apparatus components and electronic components, 500 g/l (4 2 lb/gal), B) repair and maintenance cleaning, 1) 50 g/l (0 42 lb/gal) and 2) electrical apparatus components and electronic components 900 g/l (7 5 lb/gal), C) cleaning of coating or adhesive application equipment, 550 g/l (4 6 lb/gal) [District Rule 4663, 5 1 2] Federally Enforceable Through Title V Permit
- 43 Cleaning activities that use solvents with a VOC content greater than 50 g/l (0.42 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 2.1] Federally Enforceable Through Title V Permit
- 44 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 2] Federally Enforceable Through Title V Permit
- 45 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 3] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
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- 46 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 3] Federally Enforceable Through Title V Permit
- 47 In lieu of complying with the requirements in Sections 5 1 2, 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 4 1 and 5 4 2 (Adopted December 30, 2001) [District Rule 4663, 5 4] Federally Enforceable Through Title V Permit
- 48 An owner or operator shall maintain the records required by District Rule 4663, Sections 6 2 2 through 6 2 5 (Adopted December 20, 2001) 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
- 49 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
- 50 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
- 51 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
- 52 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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-2049-1-9

EXPIRATION DATE: 04/30/2013

SECTION: SW12 **TOWNSHIP:** 29S **RANGE:** 28E

EQUIPMENT DESCRIPTION:

NOMINALLY RATED 48 MW G T E COGENERATION SYSTEM WITH SCR, INCLUDING STEWART AND STEVENSON GE LM-5000 GAS TURBINE GENERATOR, HEAT RECOVERY STEAM GENERATOR, AND INLET AIR ABSORPTION CHILLER AND HEAT EXCHANGER

PERMIT UNIT REQUIREMENTS

- 1 Turbine washing operation shall take place only when the turbine is off-line [District Rule 2201] Federally Enforceable Through Title V Permit
- 2 VOC emissions from off-line turbine wash operation shall not exceed 9.8 lb per day [District Rule 2201] Federally Enforceable Through Title V Permit
- 3 Gas fired turbine engine 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, 5.1.1] Federally Enforceable Through Title V Permit
- 4 Gas fired turbine engine shall be equipped with carbon monoxide catalytic oxidizer [District Rule 2201] Federally Enforceable Through Title V Permit
- 5 Gas turbine engine combustor 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 60.334(c)] Federally Enforceable Through Title V Permit
- 6 CEM data shall be used in addition to stack testing to determine compliance with NOx and CO concentrations and daily emission limits [District Rule 2201] Federally Enforceable Through Title V Permit
- 7 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
- 8 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 2201 and 4801, 40 CFR 60.333 (a) & (b), 60.332(a) and Kern County Rule 407] Federally Enforceable Through Title V Permit
- 9 Startup is defined as the thermal stabilization period to bring the exhaust gas to normal operating temperature range. Shutdown is defined as the cessation of operation [District Rule 4703 and 40 CFR Subpart A 60.2] Federally Enforceable Through Title V Permit
- 10 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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- 11 Inlet gas temperature to oxidation catalyst bed shall be maintained within the range recommended by manufacturer except during periods of startup and shutdown as defined herein. The facility shall maintain a record of the recommended temperature range of the manufacturer onsite. [District Rule 2201] Federally Enforceable Through Title V Permit
- 12 All gas turbine engine exhaust shall flow through catalyst bed. [District Rule 2201] Federally Enforceable Through Title V Permit
- 13 When oxidation catalyst inlet temperature exceeds 800 degrees F, the VOC emission concentration at turbine exhaust shall not exceed 0.6 ppmv dry at 15% O₂, except during periods of startup and shutdown. [District Rule 2201] Federally Enforceable Through Title V Permit
- 14 Total VOC emissions, including those from the gas turbine exhaust and lube oil vents shall not exceed 1.04 lb/hr and 25.0 lb/day, except during periods of startup and shutdown. [District Rule 2201] Federally Enforceable Through Title V Permit
- 15 Emission rate from the gas turbine exhaust shall not exceed the following: PM₁₀ 75.0 lb/day, NO_x (as NO₂) 143.7 lb/day, SO_x (as SO₂) 31.1 lb/day, and CO 252.6 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16 Nitrogen oxides (as NO₂) concentrations from the exhaust stack shall not exceed 3.6 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
- 17 Carbon monoxide (CO) concentrations from the exhaust stack shall not exceed 10 ppmv dry calculated to 15% O₂, except during periods of startup and shutdown. [District Rules 2201 and 4703, 5.2] Federally Enforceable Through Title V Permit
- 18 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 17, 1992). [District Rules 2201, 4703 and 1081] Federally Enforceable Through Title V Permit
- 19 Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080, 7.2] Federally Enforceable Through Title V Permit
20. Facility shall maintain file copies of all natural gas fuel invoices, including certification and quantity of gas consumed used to determine compliance with the requirements of this permit unit. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 21 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 24 hours prior to a planned shut down of monitoring equipment. [District Rule 2520, 9.6.2; Rule 1080, 9.0 and 10.0 and 40 CFR 60.334(c)] Federally Enforceable Through Title V Permit
- 22 Startup and shutdown 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 limit 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. [40 CFR Subpart A 60.2] Federally Enforceable Through Title V Permit
- 23 All permits issued for 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
- 24 Turbine lube oil vent shall be equipped with one pre-separator, one heat exchanger, and one air/oil separator with drain lines to turbine lube oil reservoir. [District Rule 2201] Federally Enforceable Through Title V Permit
- 25 All atmospheric lube oil vents from the turbine lube oil reservoir and the generator shall be equipped with a lube oil mist eliminator. [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

- 26 Gas turbine exhaust shall be equipped with continuously recording NO_x emission monitor located prior to catalyst [District Rule 2201] Federally Enforceable Through Title V Permit
- 27 Gas temperature at SCR catalyst section inlet shall be monitored and recorded by operational temperature indicator [District Rules 2201 and 2520, 9 3 2] Federally Enforceable Through Title V Permit
- 28 Ammonia injection grid shall be equipped with operational ammonia flowmeter and injection pressure indicator [District Rule 2201] Federally Enforceable Through Title V Permit
- 29 Ammonia slip shall not exceed 20 ppmv and daily compliance with ammonia slip limit shall be demonstrated by means of the calculation procedure set forth in this operating permit The "daily compliance" requirement can be met with a daily average slip value as calculated pursuant to condition 41 below Ammonia slip shall be calculated as: $slip = (a - (b \times c / 1,000,000)) \times 1,000,000 / b$, where a=ammonia injection rate(lb/hr)/17(lb/lb mol), b=dry exhaust gas flow rate (lb/hr)/(29(lb/lb mol), and c=change in measured NO_x concentration ppmv at stack O₂ [District Rule 4102]
- 30 Audits of monitors shall be conducted quarterly, except during quarters in which RATA testing is performed, in accordance with EPA guidelines Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rule 2201] Federally Enforceable Through Title V Permit
- 31 Facility shall monitor and record exhaust gas temperature at oxidation catalyst inlet [District Rule 2201] Federally Enforceable Through Title V Permit
- 32 Compliance with VOC emission limits shall be demonstrated by sample collection by independent testing laboratory annually, using EPA Test Method 25, 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 collected shall be submitted to the District within 60 days of testing [District Rule 2201] Federally Enforceable Through Title V Permit
- 33 Any lube oil/accumulating vent having visible emissions with an opacity of 5% or greater shall be tested, using EPA Test Method 25, to demonstrate compliance with lube oil/accumulating vent VOC emissions limit If no visible emissions occur, VOC emissions are assumed to be zero [District Rule 2201] Federally Enforceable Through Title V Permit
- 34 The gas turbine engine shall be equipped with continuously recording fuel gas flowmeter [District Rule 2201] Federally Enforceable Through Title V Permit
- 35 All CEM 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 14(h)] Federally Enforceable Through Title V Permit
- 36 Except during system breakdowns, repairs and maintenance, calibration checks, and zero and span adjustments, the continuous emission monitoring system shall be in continuous operation NO_x 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 and 40 CFR 60 486 paragraph (b), (c) and (d)] Federally Enforceable Through Title V Permit
- 37 Compliance with ammonia slip (ppmv) emission limit shall be demonstrated by sample collection 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 collected shall be submitted to the District within 60 days of testing. [District Rule 4102] Federally Enforceable Through Title V Permit
- 38 The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Emission Monitoring System (CEMS) which continuously measures and records the exhaust gas NO_x and O₂ concentrations [40 CFR 60 334(b) and District Rule 4703, 6 2.1] Federally Enforceable Through Title V Permit
- 39 The CEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA [40 CFR 60.334(b)(2) and District Rule 1080, 6 4] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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- 40 The NOx and O2 CEMS shall meet the requirements in 40 CFR 60, Appendix F Procedure 1 and Part 60, Appendix B Performance Specifications 2 and 3, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA [40 CFR 60 334(b)(1) and, District Rule 1080, 6.3, 6.5, 6.6, & 7.2] Federally Enforceable Through Title V Permit
- 41 The CEMS shall be linked to a data logger which is compatible with the District's Data acquisition system Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit
42. The owner or operator shall maintain CEMS records that contain the following the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance, duration of any periods during which a continuous monitoring system or monitoring device is inoperative, and emission measurements [40 CFR 60 7(b) and District Rule 1080, 7.3] Federally Enforceable Through Title V Permit
- 43 The owner or operator shall submit a written report of CEM operations for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include the following Time intervals, data and magnitude of excess NOx emissions, nature and the 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 (monitor downtime), except for zero and span checks, and the nature of system repairs and adjustments, A negative declaration when no excess emissions occurred [40 CFR 60 334(j), (j)(5) and District Rule 1080, 8.0] Federally Enforceable Through Title V Permit
- 44 Excess emissions shall be defined as any operating hour in which 4-hour rolling average NOx concentration exceeds applicable emissions limit and a period of monitor downtime shall be any unit operating hour in which sufficient data are not obtained to validate the hour for either NOx or O2 (or both) [40 CFR 60 334(J)(1)(iii)] Federally Enforceable Through Title V Permit
- 45 APCO or an authorized representative shall be allowed to inspect, as determined to be necessary, the monitoring devices required by this rule to ensure that such devices are functioning properly. [District Rule 1080, 11.0] Federally Enforceable Through Title V Permit
46. {2264} Reduced Load Period shall be defined as the time during which a gas turbine is operated at less than rated capacity in order to change the exhaust gas diverter gate not exceeding one hour [District Rule 4703, 3.19] Federally Enforceable Through Title V Permit
- 47 {2265} Thermal Stabilization Period shall be defined as the start up or shut down time during which the exhaust gas is not within the normal operating range, not to exceed two hours [District Rule 4703, 3.25] Federally Enforceable Through Title V Permit
48. {2256} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
- 49 The sulfur content of each fuel source shall be. (i) documented in a valid purchase contract, a supplier certification, a tariff sheet or transportation contract or (ii) monitored weekly using ASTM Methods D4084, D5504, D6228, or Gas Processors Association Standard 2377 If H2S content is less than 0.25 gr/100 scf for 8 consecutive weeks, then the Monitoring frequency shall be every six (6) months If any six (6) month monitoring show an exceedance, weekly monitoring shall resume. [40 CFR 60 334(h)(3) and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 50 Performance testing shall be conducted annually to measure NOx and CO emission concentrations using the following test methods EPA Methods 7E or 20 for NOx emissions, EPA Methods 10 or 10B for CO emissions, EPA Methods 3, 3A, or 20 for Oxygen content of the exhaust gas The 9-run tests shall be performed at highest physically achievable load of the gas turbine [40 CFR 60.335(a), (b)(7) and District Rule 4703, 6.3.1, 6.4.1, 6.4.2, & 6.4.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
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- 51 The owner or operator shall be required to conform to the sampling facilities and testing procedures described in District Rule 1081, 3 0, & 6 0 (as amended 12/16/93) [District Rule 1081, 3 0 & 6 0] Federally Enforceable Through Title V Permit
- 52 The District must be notified 30 days prior to any performance testing and a test plan shall be submitted for District approval 15 days prior to such testing [District Rule 1081, 7 1] Federally Enforceable Through Title V Permit
- 53 Performance testing shall be witnessed or authorized District personnel Test results must be submitted to the District within 60 days of performance testing [District Rule 1081, 7 2, 7 3] Federally Enforceable Through Title V Permit
- 54 The owner or operator of a stationary gas turbine system shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years [District Rule 2520, 9 4 2 and 4703, 6 2 4] Federally Enforceable Through Title V Permit
- 55 Results of the CEM system shall be averaged over a three hour period, using consecutive 15-minute sampling periods in accordance with all applicable requirements of CFR 60 13 [40 CFR 60 13 and District Rule 4703, 5 1, 6 4] Federally Enforceable Through Title V Permit
- 56 Owner or operator shall maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local time start-up and stop time, length and reason for reduced load periods, total hours of operation, type and quantity of fuel used [District Rule 4703, 6 2 6] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-2049-2-6

EXPIRATION DATE: 04/30/2013

SECTION: SW12 TOWNSHIP: 29S RANGE: 28E

EQUIPMENT DESCRIPTION:

208 BHP CUMMINS MODEL 6BTA DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE WATER PUMP

PERMIT UNIT REQUIREMENTS

- 1 All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere [District NSR Rule] Federally Enforceable Through Title V Permit
- 2 The IC engine shall be equipped with a turbocharger and with an aftercooler or intercooler [District NSR Rule] Federally Enforceable Through Title V Permit
- 3 The IC engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit
- 4 Engine shall be equipped with an rpm indicator [District Rule 2520, 9 3 3] Federally Enforceable Through Title V Permit
- 5 Maximum engine speed shall not exceed 1760 rpm (182 bhp) [District NSR Rule] Federally Enforceable Through Title V Permit
- 6 This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative [District Rule 4702, 4 3, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
- 7 {2413} No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity [District Rule 4101, 5 1] Federally Enforceable Through Title V Permit
- 8 {2414} Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration [District Rule 4201, 3 1] Federally Enforceable Through Title V Permit
- 9 Nitrogen oxide (NOx as NO2) emissions shall not exceed 7 1 grams/hp-hr [District NSR Rule] Federally Enforceable Through Title V Permit
- 10 Only CARB certified diesel fuel containing not more than 0 0015% sulfur by weight is to be used [District NSR Rule and District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
- 11 The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
- 12 The engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

- 13 This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year [District Rule 4702, 4 3, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
- 14 The permittee shall maintain monthly records of emergency and non-emergency operation Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example load testing, weekly testing, rolling blackout, general area power outage, etc) For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule [District Rules 4702, 6 2 and 2520, 9 4 2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
- 15 The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
- 16 The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
- 17 The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
- 18 The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered [District Rule 2520, 9 4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
- 19 The permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i e , process equipment) or the air pollution control and monitoring equipment The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63 6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation [District Rule 1070 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
- 20 The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content The condemning limits for these parameters are as follows. Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0 5 If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis, if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine The analysis program must be part of the maintenance plan for the engine [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
- 21 An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee [District Rule 4702] Federally Enforceable Through Title V Permit
22. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract [District Rule 4702] Federally Enforceable Through Title V Permit

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

- 23 All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request [District Rules 4702, 6 2 and 2520, 9 4 2, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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

ATTACHMENT B

Previous Title V Operating Permit



Permit to Operate

FACILITY: S-2049

EXPIRATION DATE: 04/30/2013

LEGAL OWNER OR OPERATOR:
MAILING ADDRESS:

BEAR MOUNTAIN LIMITED
34759 LENCIONI AVE, SUITE A
BAKERSFIELD, CA 93308

FACILITY LOCATION:

HEAVY OIL CENTRAL
KERN BLUFF

FACILITY DESCRIPTION:

OIL AND NATURAL GAS PRODUCTION

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

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

Seyed Sadredin
Executive Director / APCO

David Warner
Director of Permit Services

San Joaquin Valley Air Pollution Control District

FACILITY: S-2049-0-2

EXPIRATION DATE: 04/30/2013

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] Federally Enforceable Through Title V Permit
- 2 The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations [District Rule 1100, 7.0, Kern County Rule 111] Federally Enforceable Through Title V Permit
- 3 The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source [District Rule 1160, 5 0] Federally Enforceable Through Title V Permit
- 4 Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (3/21/02) [District Rule 2010, 3 0 and 4 0, and 2020] Federally Enforceable Through Title V Permit
- 5 The permittee must comply with all conditions of the permit including permit revisions originated by the District All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification, or for denial of a permit renewal application [District Rules 2070, 7 0, 2080, and 2520, 9 8 1 and 9 12 1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District [District Rule 2031] Federally Enforceable Through Title V Permit
- 7 Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District [District Rule 2040] Federally Enforceable Through Title V Permit
- 8 The operator shall maintain records of required monitoring that include 1) the date, place, and time of sampling or measurement, 2) the date(s) analyses were performed, 3) the company or entity that performed the analysis, 4) the analytical techniques or methods used, 5) the results of such analysis, and 6) the operating conditions at the time of sampling or measurement [District Rule 2520, 9 4.1] Federally Enforceable Through Title V Permit
- 9 The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings [District Rule 2520, 9 4 2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name BEAR MOUNTAIN LIMITED
Location HEAVY OIL CENTRAL, KERN BLUFF
S 2049-0 2 Jun 11 2013 8 13AM -- OGDENA

- 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 Rule 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 (10/31/01) for use or sale within the District. [District Rule 4601, 5 1] Federally Enforceable Through Title V Permit
- 24 All VOC-containing materials for architectural coatings subject to Rule 4601 (10/31/01) shall be stored in closed containers when not in use [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
- 25 The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6 1 and 6 3 (10/31/01) [District Rule 4601, 6 1 and 6 3] Federally Enforceable Through Title V Permit
- 26 With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official [District Rule 2520, 9 13 1 and 10 0] Federally Enforceable Through Title V Permit
- 27 If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR 82, Subpart F [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
- 28 If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR 82, Subpart B [40 CFR 82, Subpart B] Federally Enforceable Through Title V Permit
- 29 Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4 0 of Rule 8021 (11/15/01) or Rule 8011 (11/15/01) [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4 0 of Rule 8031 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
- 31 An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5 0, unless specifically exempted under Section 4 0 of Rule 8041 (11/15/01) or Rule 8011 (11/15/01) [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
- 32 Whenever open areas are disturbed or vehicles are used in open areas, the facility shall comply with the requirements of Section 5 0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (11/15/01) or Rule 8011 (11/15/01) [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (11/15/01) or Rule 8011 (11/15/01) [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
- 34 Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5 1 1 of District Rule 8071 Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5 1 2 of District Rule 8071 All sources shall comply with the requirements of Section 5 0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
- 35 Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61 145 (Standard for Demolition and Renovation) [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

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

- 36 The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District) The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
- 37 The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date [District Rule 2520, 5 2] Federally Enforceable Through Title V Permit
- 38 When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply [District Rule 2520, 9.1 1] Federally Enforceable Through Title V Permit
- 39 Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements Kern County Rule 401 and Kern County Rule 111 A permit shield is granted from these requirements [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
- 40 Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements. SJVUAPCD Rules 1100, sections 6 1 and 7.0 (12/17/92), 2010, sections 3 0 and 4 0 (12/17/92); 2031 (12/17/92), 2040 (12/17/92), 2070, section 7 0 (12/17/92), 2080 (12/17/92), 4101 (11/15/01), 4601, sections 5.1, 5 2, 5 3, 5.8 and 8.0 (10/31/01), 8021 (11/15/01); 8031 (11/15/01); 8041 (11/15/01), 8051 (11/15/01), 8061 (11/15/01), and 8071 (11/15/01) A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit
- 41 No air contaminant shall be released into the atmosphere which causes a public nuisance [District Rule 4102]
- 42 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, 50 g/l (0 42 lb/gal) and 2) electrical apparatus components and electronic components, 500 g/l (4.2 lb/gal), B) repair and maintenance cleaning, 1) 50 g/l (0 42 lb/gal) and 2) electrical apparatus components and electronic components 900 g/l (7 5 lb/gal), C) cleaning of coating or adhesive application equipment, 550 g/l (4 6 lb/gal) [District Rule 4663, 5 1 2] Federally Enforceable Through Title V Permit
- 43 Cleaning activities that use solvents with a VOC content greater than 50 g/l (0 42 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 1] Federally Enforceable Through Title V Permit
- 44 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 2.2] Federally Enforceable Through Title V Permit
- 45 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 3] 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 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 3] Federally Enforceable Through Title V Permit
- 47 In lieu of complying with the requirements in Sections 5 1 2, 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 4 1 and 5 4 2 (Adopted December 30, 2001) [District Rule 4663, 5 4] Federally Enforceable Through Title V Permit
- 48 An owner or operator shall maintain the records required by District Rule 4663, Sections 6 2 2 through 6 2 5 (Adopted December 20, 2001) 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
- 49 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
- 50 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
- 51 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
- 52 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-2049-1-8

EXPIRATION DATE: 04/30/2013

SECTION: SW12 TOWNSHIP: 29S RANGE: 28E

EQUIPMENT DESCRIPTION:

NOMINALLY RATED 48 MW G T E COGENERATION SYSTEM WITH SCR, INCLUDING STEWART AND STEVENSON GE LM-5000 GAS TURBINE GENERATOR, HEAT RECOVERY STEAM GENERATOR, AND INLET AIR ABSORPTION CHILLER AND HEAT EXCHANGER

PERMIT UNIT REQUIREMENTS

1. Turbine washing operation shall take place only when the turbine is off-line [District Rule 2201] Federally Enforceable Through Title V Permit
2. VOC emissions from off-line turbine wash operation shall not exceed 9.8 lb per day [District Rule 2201] Federally Enforceable Through Title V Permit
3. Gas fired turbine engine 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, 5.1.1] Federally Enforceable Through Title V Permit
4. Gas fired turbine engine shall be equipped with carbon monoxide catalytic oxidizer [District Rule 2201] Federally Enforceable Through Title V Permit
5. Gas turbine engine combustor 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 60.334(c)] Federally Enforceable Through Title V Permit
6. CEM data shall be used in addition to stack testing to determine compliance with NOx and CO concentrations and daily emission limits. [District Rule 2201] Federally Enforceable Through Title V Permit
7. 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
8. 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 2201 and 4801, 40 CFR 60.333 (a) & (b), 60.332(a) and Kern County Rule 407] Federally Enforceable Through Title V Permit
9. Startup is defined as the thermal stabilization period to bring the exhaust gas to normal operating temperature range. Shutdown is defined as the cessation of operation [District Rule 4703 and 40 CFR Subpart A 60.2] Federally Enforceable Through Title V Permit
10. 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

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

- 11 Inlet gas temperature to oxidation catalyst bed shall be maintained within the range recommended by manufacturer except during periods of startup and shutdown as defined herein. The facility shall maintain a record of the recommended temperature range of the manufacturer onsite. [District Rule 2201] Federally Enforceable Through Title V Permit
- 12 All gas turbine engine exhaust shall flow through catalyst bed. [District Rule 2201] Federally Enforceable Through Title V Permit
- 13 When oxidation catalyst inlet temperature exceeds 800 degrees F, the VOC emission concentration at turbine exhaust shall not exceed 0.6 ppmv dry at 15% O₂, except during periods of startup and shutdown. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total VOC emissions, including those from the gas turbine exhaust and lube oil vents shall not exceed 1.04 lb/hr and 25.0 lb/day, except during periods of startup and shutdown. [District Rule 2201] Federally Enforceable Through Title V Permit
- 15 Emission rate from the gas turbine exhaust shall not exceed the following: PM₁₀ 75.0 lb/day, NO_x (as NO₂) 143.7 lb/day, SO_x (as SO₂) 31.1 lb/day, and CO 252.6 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16 Nitrogen oxides (as NO₂) concentrations from the exhaust stack shall not exceed 3.6 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
- 17 Carbon monoxide (CO) concentrations from the exhaust stack shall not exceed 10 ppmv dry calculated to 15% O₂, except during periods of startup and shutdown. [District Rules 2201 and 4703, 5.2] Federally Enforceable Through Title V Permit
- 18 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 17, 1992). [District Rules 2201, 4703 and 1081] Federally Enforceable Through Title V Permit
- 19 Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080, 7.2] Federally Enforceable Through Title V Permit
- 20 Facility shall maintain file copies of all natural gas fuel invoices, including certification and quantity of gas consumed used to determine compliance with the requirements of this permit unit. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. 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 24 hours prior to a planned shut down of monitoring equipment. [District Rule 2520, 9.6.2, Rule 1080, 9.0 and 10.0 and 40 CFR 60.334(c)] Federally Enforceable Through Title V Permit
- 22 Startup and shutdown 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 limit 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. [40 CFR Subpart A 60.2] Federally Enforceable Through Title V Permit
23. All permits issued for 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
- 24 Turbine lube oil vent shall be equipped with one pre-separator, one heat exchanger, and one air/oil separator with drain lines to turbine lube oil reservoir. [District Rule 2201] Federally Enforceable Through Title V Permit
- 25 All atmospheric lube oil vents from the turbine lube oil reservoir and the generator shall be equipped with a lube oil mist eliminator. [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

- 26 Gas turbine exhaust shall be equipped with continuously recording NO_x emission monitor located prior to catalyst [District Rule 2201] Federally Enforceable Through Title V Permit
- 27 Gas temperature at SCR catalyst section inlet shall be monitored and recorded by operational temperature indicator [District Rules 2201 and 2520, 9 3 2] Federally Enforceable Through Title V Permit
- 28 Ammonia injection grid shall be equipped with operational ammonia flowmeter and injection pressure indicator [District Rule 2201] Federally Enforceable Through Title V Permit
- 29 Ammonia slip shall not exceed 20 ppmv and daily compliance with ammonia slip limit shall be demonstrated by means of the calculation procedure set forth in this operating permit The "daily compliance" requirement can be met with a daily average slip value as calculated pursuant to condition 41 below Ammonia slip shall be calculated as: $slip = (a - (b \times c / 1,000,000)) \times 1,000,000 / b$, where a=ammonia injection rate(lb/hr)/17(lb/lb mol), b=dry exhaust gas flow rate (lb/hr)/(29(lb/lb mol)), and c=change in measured NO_x concentration ppmv at stack O₂ [District Rule 4102]
- 30 Audits of monitors shall be conducted quarterly, except during quarters in which RATA testing is performed, in accordance with EPA guidelines Audit reports shall be submitted along with quarterly compliance reports to the District [District Rule 2201] Federally Enforceable Through Title V Permit
- 31 Facility shall monitor and record exhaust gas temperature at oxidation catalyst inlet [District Rule 2201] Federally Enforceable Through Title V Permit
32. Compliance with VOC emission limits shall be demonstrated by sample collection by independent testing laboratory annually, using EPA Test Method 25, 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 collected shall be submitted to the District within 60 days of testing. [District Rule 2201] Federally Enforceable Through Title V Permit
- 33 Any lube oil/accumulating vent having visible emissions with an opacity of 5% or greater shall be tested, using EPA Test Method 25, to demonstrate compliance with lube oil/accumulating vent VOC emissions limit If no visible emissions occur, VOC emissions are assumed to be zero [District Rule 2201] Federally Enforceable Through Title V Permit
- 34 The gas turbine engine shall be equipped with continuously recording fuel gas flowmeter [District Rule 2201] Federally Enforceable Through Title V Permit
- 35 All CEM 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 14(h)] Federally Enforceable Through Title V Permit
- 36 Except during system breakdowns, repairs and maintenance, calibration checks, and zero and span adjustments, the continuous emission monitoring system shall be in continuous operation NO_x 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 and 40 CFR 60 486 paragraph (b), (c) and (d)] Federally Enforceable Through Title V Permit
- 37 Compliance with ammonia slip (ppmv) emission limit shall be demonstrated by sample collection 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 collected shall be submitted to the District within 60 days of testing [District Rule 4102] Federally Enforceable Through Title V Permit
38. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Emission Monitoring System (CEMS) which continuously measures and records the exhaust gas NO_x and O₂ concentrations [40 CFR 60 334(b) and District Rule 4703, 6 2 1] Federally Enforceable Through Title V Permit
- 39 The CEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA [40 CFR 60 334(b)(2) and District Rule 1080, 6 4] 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

- 40 The NO_x and O₂ CEMS shall meet the requirements in 40 CFR 60, Appendix F Procedure 1 and Part 60, Appendix B Performance Specifications 2 and 3, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA [40 CFR 60 334(b)(1) and, District Rule 1080, 6 3, 6 5, 6 6, & 7.2] Federally Enforceable Through Title V Permit
- 41 The CEMS shall be linked to a data logger which is compatible with the District's Data acquisition system. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method [District Rule 1080, 7 1] Federally Enforceable Through Title V Permit
- 42 The owner or operator shall maintain CEMS records that contain the following the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance, duration of any periods during which a continuous monitoring system or monitoring device is inoperative, and emission measurements [40 CFR 60.7(b) and District Rule 1080, 7 3] Federally Enforceable Through Title V Permit
43. The owner or operator shall submit a written report of CEM operations for each calendar quarter to the APCO The report is due on the 30th day following the end of the calendar quarter and shall include the following Time intervals, data and magnitude of excess NO_x emissions, nature and the 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 (monitor downtime), except for zero and span checks, and the nature of system repairs and adjustments, A negative declaration when no excess emissions occurred. [40 CFR 60.334(j), (j)(5) and District Rule 1080, 8.0] Federally Enforceable Through Title V Permit
- 44 Excess emissions shall be defined as any operating hour in which 4-hour rolling average NO_x concentration exceeds applicable emissions limit and a period of monitor downtime shall be any unit operating hour in which sufficient data are not obtained to validate the hour for either NO_x or O₂ (or both) [40 CFR 60 334(J)(1)(ii)] Federally Enforceable Through Title V Permit
- 45 APCO or an authorized representative shall be allowed to inspect, as determined to be necessary, the monitoring devices required by this rule to ensure that such devices are functioning properly. [District Rule 1080, 11 0] Federally Enforceable Through Title V Permit
- 46 Reduced Load Period shall be defined as the time during which a gas turbine is operated at less than rated capacity in order to change the exhaust gas diverter gate not exceeding one hour [District Rule 4703, 3 19] Federally Enforceable Through Title V Permit
- 47 Thermal Stabilization Period shall be defined as the start up or shut down time during which the exhaust gas is not within the normal operating range, not to exceed two hours [District Rule 4703, 3.25] Federally Enforceable Through Title V Permit
- 48 Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration [District Rule 4201, 3 1] Federally Enforceable Through Title V Permit
- 49 The sulfur content of each fuel source shall be (i) documented in a valid purchase contract, a supplier certification, a tariff sheet or transportation contract or (ii) monitored weekly using ASTM Methods D4084, D5504, D6228, or Gas Processors Association Standard 2377 If H₂S content is less than 0.25 gr/100 scf for 8 consecutive weeks, then the Monitoring frequency shall be every six (6) months If any six (6) month monitoring show an exceedance, weekly monitoring shall resume [40 CFR 60 334(h)(3) and District Rule 2520, 9.3 2] Federally Enforceable Through Title V Permit
- 50 Performance testing shall be conducted annually to measure NO_x and CO emission concentrations using the following test methods EPA Methods 7E or 20 for NO_x emissions, EPA Methods 10 or 10B for CO emissions, EPA Methods 3, 3A, or 20 for Oxygen content of the exhaust gas The 9-run tests shall be performed at highest physically achievable load of the gas turbine [40 CFR 60 335(a), (b)(7) and District Rule 4703, 6.3 1, 6 4 1, 6 4 2, & 6 4 3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
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- 51 The owner or operator shall be required to conform to the sampling facilities and testing procedures described in District Rule 1081, 3 0, & 6 0 (as amended 12/16/93) [District Rule 1081, 3 0 & 6.0] Federally Enforceable Through Title V Permit
- 52 The District must be notified 30 days prior to any performance testing and a test plan shall be submitted for District approval 15 days prior to such testing [District Rule 1081, 7.1] Federally Enforceable Through Title V Permit
53. Performance testing shall be witnessed or authorized District personnel Test results must be submitted to the District within 60 days of performance testing [District Rule 1081, 7 2, 7 3] Federally Enforceable Through Title V Permit
- 54 The owner or operator of a stationary gas turbine system shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years [District Rule 2520, 9 4 2 and 4703, 6.2 4] Federally Enforceable Through Title V Permit
- 55 Results of the CEM system shall be averaged over a three hour period, using consecutive 15-minute sampling periods in accordance with all applicable requirements of CFR 60 13 [40 CFR 60 13 and District Rule 4703, 5 1, 6.4] Federally Enforceable Through Title V Permit
- 56 Owner or operator shall maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local time start-up and stop time, length and reason for reduced load periods, total hours of operation, type and quantity of fuel used [District Rule 4703, 6.2.6] Federally Enforceable Through Title V Permit
- 57 Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements. Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus) A permit shield is granted from these requirements. [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit
- 58 Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements. 40 CFR 60 332 (a)(1), (a)(2), 60 333 (b), 60 334(b) (b)(1), (b)(2), (h)(3), (j), (j)(1)(iii), and (j)(5), and 60 335(a), (b)(7), (b)(3), and District Rule 4703 (as amended 4/25/02), Sections 5 1 2.1, 5.2, 6 2 2, 6 2 6, 6.3, and 6 4 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit
- 59 Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: 40 CFR 60 7(b), 60 8, 60.13, and District Rules 1080 (as amended 12/17/92), Sections 6 3, 6 4, 6.5, 6 6, 7.1, 7 2, 7 3, 8 0, and 11 0; 1081(as amended 12/16/93), Sections 3 0, 6 0, 7 1, 7 2, and 7 3, and 4201 (as amended 12/17/92) A permit shield is granted from these requirements. [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-2049-2-5

EXPIRATION DATE: 04/30/2013

SECTION: SW12 TOWNSHIP: 29S RANGE: 28E

EQUIPMENT DESCRIPTION:

208 BHP CUMMINS MODEL 6BTA DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE WATER PUMP

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere [District NSR Rule] Federally Enforceable Through Title V Permit
2. The IC engine shall be equipped with a turbocharger and with an aftercooler or intercooler [District NSR Rule] Federally Enforceable Through Title V Permit
3. The IC engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit
4. Engine shall be equipped with an rpm indicator [District Rule 2520, 9 3 3] Federally Enforceable Through Title V Permit
5. Maximum engine speed shall not exceed 1760 rpm (182 bhp) [District NSR Rule] Federally Enforceable Through Title V Permit
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative [District Rule 4702, 4 3 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101, 5 1] Federally Enforceable Through Title V Permit
8. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration [District Rule 4201, 3 1] Federally Enforceable Through Title V Permit
9. Nitrogen oxide (NO_x as NO₂) emissions shall not exceed 7.1 grams/hp-hr [District NSR Rule] Federally Enforceable Through Title V Permit
10. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used [District NSR Rule and District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year [District Rule 4702, 4 3 and 17 CCR 93115] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
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- 12 The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example load testing, weekly testing, rolling blackout, general area power outage, etc.) For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4702, 6.2 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
- 13 The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
- 14 An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
- 15 This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
- 16 All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 6.2 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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ATTACHMENT C

Detailed Facility List

Detailed Facility Report

For Facility=2049

Sorted by Facility Name and Permit Number

BEAR MOUNTAIN LIMITED	FAC #	S 2049	TYPE	TitleV	EXPIRE ON	04/30/2013
HEAVY OIL CENTRAL	STATUS	A	TOXIC ID	51620	AREA	83 /
KERN BLUFF	TELEPHONE	8053936885			INSP DATE	05/13

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-2049-1-8	48 MW G T E COGENERATION SYSTEM	3020-08A G	1	10,215 00	10,215 00	A	NOMINALLY RATED 48 MW G T E COGENERATION SYSTEM WITH SCR, INCLUDING STEWART AND STEVENSON GE LM-5000 GAS TURBINE GENERATOR, HEAT RECOVERY STEAM GENERATOR, AND INLET AIR ABSORPTION CHILLER AND HEAT EXCHANGER
S-2049-2-5	208 bhp IC engine	3020-10 C	1	240 00	240 00	A	208 BHP CUMMINS MODEL 6BTA DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE WATER PUMP

Number of Facilities Reported 1