

**STATEMENT OF BASIS
FOR
RENEWAL OF TITLE V FEDERAL OPERATING PERMIT**

Title V Permit No.:	<u>13007</u>
Date:	<u>April X, 2026</u>
Reviewing Engineer:	<u>Robin Demma</u>

FACILITY INFORMATION:

FACILITY NAME: Feather River Energy Center

LOCATION: 202 Burns Drive
Yuba City, CA 95991

MAILING ADDRESS: Gilroy Energy Center, LLC
5029 South Township Rd
Yuba City, CA 95993

RESPONSIBLE OFFICIAL: Andrew Gundershaug
General Plant Manager
(707) 399-4393

CONTACT PERSON: Jamie Wright
O&M Manager
(530) 821-2063

PURPOSE OF THIS STATEMENT OF BASIS:

The Title V Federal Operating Permit is intended to be a document containing only enforceable terms and conditions as well as any additional information, such as the identification of emission units, emission points, emission sources, and processes that makes the terms meaningful. 40 CFR Part 70.7(a)(5) requires that each Title V permit have an accompanying "...statement that sets forth the legal and factual basis for the draft permit conditions." The purpose of this Statement of Basis is to satisfy the above requirement by providing pertinent details regarding the permit and application data and permit conditions in a more easily understandable format. This report will also include a background narrative and explanations of regulatory decisions made by the reviewer. It should be emphasized that this Statement of Basis, while based on information contained in the permit, is a separate document and is not itself an enforceable term and condition of the permit.

PERMIT ACTION:

This Statement of Basis is for the first renewal of Title V Federal Operating Permit No. P13007 for Feather River Energy Center. The purpose of this evaluation is to identify all applicable

requirements, determine if the facility will comply with those applicable requirements, and provide the legal and factual basis for proposed permit conditions. The initial Title V Federal Operating Permit No. P13007 was issued on April 29, 2013, with an expiration date of April 29, 2018. Feather River Energy Center is currently operating under the initial Title V Federal Operating Permit shield as specified in FRAQMD Rule 10.3.D.1 because they applied for the renewal 6 months before the permit expiration. The permit shield will be removed when the Title V renewal permit is issued.

FACILITY DESCRIPTION:

Feather River operates a simple cycle combustion gas turbine driving a turbine generator, which is rated at 49.4 megawatts. The facility is located in Yuba City at 202 Burns Drive. A compressor provides combustion air to the turbine. An inlet air chiller adjusts the combustion air temperature to an optimum level. A cooling tower removes heat from the cooling water used to condense chiller coolant. The turbine is fueled exclusively with natural gas obtained from the existing natural gas supply line to the facility. Turbine exhaust drives a generator to produce electricity.

The turbine is equipped with a selective catalytic reduction (SCR) reactor using ammonia to reduce NO_x emissions to form nitrogen gas and water vapor. An oxidation catalyst reactor combusts the by-products of incomplete combustion in the turbine converting CO to CO₂.

SIGNIFICANT EMISSIONS UNIT DESCRIPTION:

Gas Turbine (S-1)

Manufacturer:	General Electric
Model No.:	LM6000PC
Type:	Simple Cycle
Emission Control:	SCR and Oxidation catalyst
Fuel:	Natural gas
Max. Heat Input:	500 MMBTU/hour
Net Output:	49.4 MW (nominal)

Air Pollution Control System for (S-1) for NO_x

Control Device:	Selective Catalytic Reduction (ammonia injection)
Venting:	Gas Turbine

Air Pollution Control System for (S-1) for CO and ROG

Control Device:	Oxidation Catalyst
Venting:	Gas Turbine

INSIGNIFICANT EMISSIONS UNIT DESCRIPTION:

An insignificant activity is any activity, process, or emissions unit which are not subject to a source-specific requirement of a State Implementation Plan, preconstruction permit, or federal standard and which:

- 1) meets the FRAQMD's "Criteria for Specific Source Categories," or
- 2) emits no more than 0.5 tons per year of a federal hazardous air pollutant (HAP) and no more than two tons per year of a regulated pollutant that is not a HAP.

EXEMPT EQUIPMENT	EQUIPMENT DESCRIPTION	BASIS FOR EXEMPTION
Utility carts, man-lifts, forklifts, and on-road vehicles	Mobile Equipment (nonroad vehicles)	Rule 4.3.a and 4.3.g
Chiller (cooling tower)	Air intake chiller < 10,000 gpm	Rule 4.3.d Rule 10.3 Attachment 1 - B.3
Air conditioning and office heating	HVAC equipment < 60,000,000 BTU/hr	Rule 4.3.d and 4.3.e Rule 10.3 Attachment 1 - B.2.d
Parts cleaner	Solvent cleaning tank	Rule 4.3.h Rule 10.3 Attachment 1 - B.15
Turbine lube oil tanks	Turbine lube oil tanks (vapor pressure < 1.5 psig)	Rule 4.3.h Rule 10.3 Attachment 1 - B.7.d
Brazing, welding, and soldering associated with maintenance.	Maintenance equipment	Rule 4.3.h Rule 10.3 Attachment 1 – B.17
Ammonia Tank 12,000 gallon (regulated only for RMP CAA §112r) 19.5% aqueous	Any valves, flanges, and unvented (except for emergency pressure relief valves) pressure vessels	Rule 4.3.h Rule 10.3 Attachment 1 – B.1
Natural gas supply lines, valves, flanges, and compressors.	Any valves, flanges, and unvented (except for emergency pressure relief valves) pressure vessels	Rule 4.3.h Rule 10.3 Attachment 1 – B.11
Various oil tanks, vessels, and pipelines	Turbine lube and transformer oil	Rule 4.3.h Rule 10.3 Attachment 1 – B.8

ALTERNATE OPERATING SCENARIOS:

None requested by the permittee.

FACILITY EMISSIONS:

Equipment	Maximum Allowable Annual Emissions (tons per year)				
	ROG	NOx	SOx	PM	CO
S-1 – Gas Turbine	5.5	24.9	1.5	11.0	28.9

APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS <u>Facility-wide Requirements</u>
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FACILITY-WIDE REQUIREMENTS:

Sutter County Air Pollution Control District (SCAPCD) Rule 1.1 - Definitions

SIP approved: 04-12-1982 (47 FR 15585)
Rule Description: This rule provides definitions of terms used in permitting and prohibitory requirements.
Compliance Status: The rule does not require the permittee to take any actions.

FRAQMD Rule 3.0 - Visible Emissions

SIP approved: 03-19-2025 (90 FR 12688)
Rule Description: This rule limits the discharge of air contaminants into the atmosphere through visible emissions and a 40% opacity limitation.
Compliance Status: All equipment is expected to comply with the visible emission requirement. The permit will contain the necessary conditions to remain in compliance with this rule.

FRAQMD Rule 3.2 – Particulate Concentration

SIP approved: 03-19-2025 (90 FR 12688)
Rule Description: This rule regulates emissions of particulate matter (PM) from non-combustion and combustion processes. PM from combustion sources shall not exceed 0.3 grains/dscf corrected to 12% CO₂.
Compliance Status: All equipment is expected to comply with the particulate concentration requirement. The permit will contain the necessary conditions to remain in compliance with this rule.

FRAQMD Rule 3.3 - Dust and Fumes

The following rule is not an applicable federal requirement but is discussed here to document the non-applicability determination:

SIP approved: 03-19-2025 (90 FR 12688)
Rule Description: This rule regulates emissions of PM from sources that "process" materials that emit particulate matter. The allowable particulate matter emission is based on the weight of the material "processed".
Compliance Status: The FRAQMD has determined that the rule is not applicable to the facility because the equipment does not "process" material.

APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS
Facility-wide Requirements

FRAQMD Rule 3.6 – Abrasive Blasting

SIP approved: 03-19-2025 (90 FR 12688)
Rule Description: This rule regulates emissions of particulate matter (PM) from abrasive blasting.
Compliance Status: The facility is expected to comply with the requirement. The permit will contain the necessary conditions to remain in compliance with this rule.

FRAQMD Rule 3.13 – Circumvention

SIP approved: 03-19-2025 (90 FR 12688)
Rule Description: This rule requires the permittee to not conceal any emissions that would constitute a violation of the State of California Health and Safety Code or the FRAQMD Rules and Regulations.
Compliance Status: The facility is expected to comply with the requirement. The permit will contain the necessary conditions to remain in compliance with this rule.

FRAQMD Rule 3.14 – Surface Preparation and Cleanup

SIP approved: 04-26-2021 (86 FR 21942)
Rule Description: This rule regulates emissions of Volatile Organic Compounds (VOCs) from surface preparation and clean-up, and from the storage and disposal of materials used for surface preparation and clean-up.
Compliance Status: The facility is expected to comply with the requirements. The permit contains the necessary conditions to remain in compliance with this rule.

FRAQMD Rule 3.15 - Architectural Coatings

SIP approved: 12-08-2015 (80 FR 76222)
Rule Description: This rule limits the quantity of volatile organic compounds in architectural coatings supplied, sold, offered for sale, applied, solicited for application or manufactured for use within the FRAQMD.
Compliance Status: The affected coatings used by the permittee are received and stored in containers that display the required manufacturer's labels and demonstrate compliance with the rule's requirements.

SCAPCD Rule 4.0 - General Requirements

APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS <u>Facility-wide Requirements</u>
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SIP approved: 04-12-1982 (47 FR 15585)
Rule Description: This rule provides a procedure for the review of new sources of air pollution and of the modification and operation of existing sources through the issuance of permits.
Compliance Status: The permittee has obtained permits for all sources that require permits.

SCAPCD Rule 4.1 - Permits Required

SIP approved: 04-12-1982 (47 FR 15585)
Rule Description: This rule requires an Authority to Construct and a Permit to Operate for sources of air contaminant emissions.
Compliance Status: The permittee has received permits for all sources that require permits.

SCAPCD Rule 4.5 - Conditional Approval

SIP approved: 04-12-1982 (47 FR 15585)
Rule Description: This rule allows the FRAQMD Air Pollution Control Officer to issue permits with conditions that bring the operation of the subject equipment within the standards of the FRAQMD rules.
Compliance Status: The permittee has received conditional permits for sources at their facility that have been incorporated into the Title V permit.

SCAPCD Rule 4.14 - Posting of Permit

SIP approved: 04-12-1982 (47 FR 15585)
Rule Description: This rule requires that a permit be posted or be readily available at all times on the operating premises.
Compliance Status: The facility is expected to comply with the requirement. The permit will contain the necessary conditions to remain in compliance with this rule.

SCAPCD Rule 9.5 - Air Pollution Control Equipment - Scheduled Maintenance

SIP approved: 04-12-1982 (47 FR 15585)
Rule Description: This rule requires that the source notify the FRAQMD Air Pollution Control Officer of any shutdown of the air pollution control equipment.
Compliance Status: The facility is expected to comply with the requirement. The permit will contain the necessary conditions to remain in

APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS <u>Facility-wide Requirements</u>
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compliance with this rule.

FRAQMD Rule 9.6 - Equipment Breakdown

SIP approved: 03-19-2025 (90 FR 12688)
Rule Description: This rule requires that the source notify the FRAQMD Air Pollution Control Officer of any breakdown of equipment that causes a violation of FRAQMD rules.
Compliance Status: The facility is expected to comply with the requirement. The permit will contain the necessary conditions to remain in compliance with this rule.

FRAQMD Rule 10.3 - Title V Federal Operating Permits

SIP approved: The rule is not SIP approved, but the rule is applicable because it is part of the FRAQMD Title V Federal Operating Permit program approved by the U.S. EPA on 11-21-2003 (68 FR 65637).
Rule Description: This rule sets forth the procedures for review, issuance, modification, and renewal of Title V federal operating permits.
Compliance Status: The permittee has submitted a timely and complete Title V permit application. The permit will contain the necessary conditions to remain in compliance with this rule.

FRAQMD Rule 10.10 – Prevention of Significant Deterioration

SIP approved: 11-12-2015 (80 FR 69880)
Rule Description: This rule sets forth the procedures for review and issuance of federal operating Prevention of Significant Deterioration (PSD) permits.
Compliance Status: The permittee is expected to comply with this rule.

APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS
Equipment Specific Requirements
Gas Turbine (S-1)

EQUIPMENT SPECIFIC REQUIREMENTS – Gas Turbine (S-1):

FRAQMD Rule 3.2 - Particulate Matter Concentrations

SIP approved: 03-19-2025 (90 FR 12688)
Rule Description: This rule regulates emissions of particulate matter (PM) from non-combustion and combustion processes. PM from combustion sources shall not exceed 0.3 grains/dscf corrected to 12% CO₂.
Compliance Status: The operation of the gas turbine is expected to comply with the particulate matter concentration requirement. However, the permittee requested a more stringent permit condition that this rule imposes. The Title V permit will contain a permit shield indicating that compliance with the conditions of the Title V permit will be deemed compliance with FRAQMD Rule 3.2.

(See discussion of streamlining multiple applicable requirements at the end of this section titled “Equipment Specific Requirements – Gas Turbine)

FRAQMD Rule 3.10 - Sulfur Oxides

SIP approved: 03-19-2025 (90 FR 12688)
Rule Description: This rule regulates emissions of sulfur oxides. SO₂ emissions shall not exceed 2,000 ppmv.
Compliance Status: The operation of the gas turbine is expected to comply with the sulfur oxides concentration requirement. However, the permittee requested a more stringent permit condition that this rule imposes. The Title V permit will contain a permit shield indicating that compliance with the conditions of the Title V permit will be deemed compliance with FRAQMD Rule 3.10.

(See discussion of streamlining multiple applicable requirements at the end of this section titled “Equipment Specific Requirements – Gas Turbine)

APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS
Equipment Specific Requirements
Gas Turbine (S-1)

SCAPCD Rule 4.5 – Conditional Approval

SIP approved: 04-12-1982 (47 FR 15585)
Rule Description: This rule authorizes the APCO to impose conditions that will bring the permitted equipment into compliance with rules and regulations.
Compliance Status: FRAQMD Permit to Operate No. P13007 for the gas turbine limits emission concentrations and mass emissions, and requires recordkeeping and reporting.

FRAQMD Rule 10.1 – New Source Review

SIP approved: 10-05-2015 (80 FR 60047)
Rule Description: This rule establishes preconstruction review requirements including offsets, Best Available Control Technology (BACT), the analysis of air quality impacts for new and modified stationary sources, and to ensure that the operation of such sources does not interfere with the attainment or maintenance of ambient air quality standards.

Compliance Status: This rule also provides for a “no net increase” in emissions pursuant to Section 40918 and 40920 of the California Health and Safety Code.
The gas turbine was evaluated for BACT at the time of application (02-22-2002). BACT was not triggered for federal requirements but was triggered under the no net increase provisions for ozone precursors (NO_x and ROG).

BACT for NO_x was determined to be 5 ppmvd @ 15% O₂. BACT for ROG was determined to be 2 ppmvd @ 15% O₂ or 0.0027 lb/MMBtu HHV. These values were derived from the California Air Resources Board’s “Guidance for Power Plant Siting and Best Available Control Technology, September 1999”

The facility did not trigger offset requirements under Rule 10.1.

APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS
Equipment Specific Requirements
Gas Turbine (S-1)

40 CFR 60 Subpart A (begin at 60.1) - General Provisions:

Promulgated: 11-17-1975 (40 FR 53346)
01-18-2008 (72 FR 3590) - Most recent amendment

Rule Description: This NSPS affects all facilities subject to source specific NSPS requirements. The regulations specifies general definitions and general requirements for notification, recordkeeping, performance tests, maintenance, and monitoring

Compliance Status: The operation of the Gas Turbine (S-1) is expected to comply with the applicable Subpart A requirements.

40 CFR 60 Subpart GG (begin at 60.330) - NSPS for Stationary Gas Turbines:

Promulgated: 09-10-1979 (44 FR 52798)
02-24-2006 (71 FR 9457) - Most recent amendment

Rule Description: This NSPS affects all stationary gas turbines with a heat input greater than 10 MMBTU/hour.

NO_x Emission Limits [§60.332.a.1]

The gas turbine NO_x emissions are required to not exceed:

$$1. \quad STD = 0.0075 \frac{(14.4)}{Y} + F$$

where:

STD = allowable ISO corrected NO_x emission concentration (percent by volume at 15 percent oxygen and on a dry basis),
Y = manufacturer's rated heat rate at manufacturer's rated load (kilojoules per watt hour) or, actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility. The value of Y shall not exceed 14.4 kilojoules per watt hour, and

F = NO_x emission allowance for fuel-bound nitrogen.

SO₂ Limits [§60.333]

The gas turbine SO₂ emissions are required to meet one of the following requirements:

2. Either:
 - a. Emission limit of 150 ppmvd of SO₂ at 15% O₂, or
 - b. Less than 0.8% (8,000 ppmw) sulfur by weight in the fuel.

APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS
Equipment Specific Requirements
Gas Turbine (S-1)

Monitoring [§60.334.a, §60.334.c]

3. This permittee shall monitor either water-to-fuel ratio or operate a CEM system for NO_x and O₂.

Reporting [§60.334]

4. The permittee must report excess emissions of NO_x based on a 4-hour rolling average. The permittee must also report monitored downtime for the NO_x and O₂ monitor when sufficient data is not collected to validate any one-hour period

Compliance Status: NO_x Emission Limits

1. The applicant calculated the NO_x emission limit to be 112 ppmv NO_x at 15% O₂ based on the equation in NSPS GG. The gas turbine NO_x emission concentration is limited by permit condition to 5 ppmvd NO_x at 15% O₂ and the permittee complies with the requirement.

SO₂ Limits

2. The fuel combusted in the turbine is natural gas. The sulfur content of natural gas is less than 0.5 grains per 100 cubic feet. Based on the sulfur content of natural gas, the sulfur concentration in the natural gas fuel is much less than 0.8% by weight.

Example calculation -

- a) 7000 grains = 1 lb
- b) 0.5 grains S/100 cubic feet = 0.00000714 lb S/ft³
- c) natural gas density is approximately 0.05 lb/ft³
- d) which results in a sulfur concentration in natural gas of approximately 0.0014% by weight.

Monitoring

3. The permittee operates a CEM system that measures and records NO_x and O₂ and complies with the monitoring requirements.

Reporting

4. The permittee complies with the requirement to report excess emissions of NO_x and monitor downtime.

The operation of the gas turbine is expected to comply with this federal NSPS. The monitoring and reporting conditions will be incorporated into the permit. However, the permittee requested more stringent NO_x and SO₂ emission limits than this rule

APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS
Equipment Specific Requirements
Gas Turbine (S-1)

imposes. The Title V permit will contain a permit shield indicating that compliance with the conditions of the Title V permit will be deemed compliance with the subsumed sections of 40 CFR 60 Subpart NSPS GG.

(See discussion of streamlining multiple applicable requirements at the end of this section titled "Equipment Specific Requirements – Gas Turbine)

40 CFR 60 Subpart KKKK (begin at 60.4300) – NSPS for Stationary Combustion Turbines:

Note: This federal regulation is not an applicable federal requirement, but is discussed here to document the non-applicability of the regulation.

Promulgated: 07-06-2006 (71 FR 38497)
Rule Description: This subpart establishes emission standards and compliance schedules for the control of emissions from stationary combustion turbines that commenced construction, modification, or reconstruction after February 18, 2005.
Compliance Status: The gas turbine commenced construction prior to February 18, 2005, and has not been modified after that date; therefore, is not subject to the NSPS.

40 CFR 63 Subpart Q – National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers:

Note: This federal regulation is not an applicable federal requirement, but is discussed here to document the non-applicability of the regulation.

Promulgated: 09-08-1994 (59 FR 46339)
Rule Description: This federal regulation prohibits the use of chromium in cooling tower water at major sources of HAP, beginning September 08, 1994.
Compliance Status: The cooling tower is not subject to the federal NESHAP for Industrial Process Cooling Towers because it is not located at a facility that is a major source for HAP.

APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS
Equipment Specific Requirements
Gas Turbine (S-1)

40 CFR 63 Subpart YYYY - National Emission Standards for Hazardous Air Pollutants for Stationary Gas Turbines:

Note: This federal regulation is not an applicable federal requirement, but is discussed here to document the non-applicability of the regulation.

Promulgated: 03-05-2004 (69 FR 10511)
Rule Description: This federal regulation limits the emission of HAP from stationary gas turbines located at major sources of HAP.
Compliance Status: The gas turbine is not subject to the federal NESHAP for Stationary Gas Turbines because it is not located at a facility that is a major source for HAP.

40 CFR 64 Compliance Assurance Monitoring:

Note: This federal regulation is not an applicable federal requirement, but is discussed here to document the non-applicability of the regulation.

Promulgated: 10-22-1997 (52 FR 54940)
Rule Description: This federal regulation specifies monitoring requirements for Title V sources that will assure compliance with emission limitations or standards.
Compliance Status: Compliance Assurance Monitoring does not apply to the gas turbine SCR system because the Title V permit requires the use of a continuous compliance determination method [40 CFR 64.2(b)(1)(vi)], i.e. a continuous emissions monitoring system (CEMS) for NO_x.

40 CFR Parts 72 through 78 Acid Rain Program:

Promulgated: 01-11-1993 (58 FR 3650)
10-19-2007 (72 FR 59205) – Most recent amendment
Rule Description: This federal regulation limits the emission of NO_x and SO₂ from electric utility associated combustion equipment such as boilers and gas turbines in order to reduce acid rain.
Compliance Status: The permittee submitted an acid rain application in 2002 and has updated the application as appropriate. The Title V permit will contain the necessary conditions to remain in compliance with the Acid Rain Program.

APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS
Equipment Specific Requirements
Gas Turbine (S-1)

Streamlining Multiple Applicable Requirements:

The gas turbine is subject to the following overlapping Applicable Federally Enforceable Requirements for NO_x and SO₂:

Applicable Requirement	Emission Limits	
	NO _x	SO ₂
40 CFR 60 Subpart GG NSPS for Gas Turbines (amended 02-24-2006)	112 ppm @ 15% O ₂ [§60.332.a.1]	150 ppmvd @ 15% O ₂ or 8,000 ppmw S in the fuel [§60.333]
FRAQMD Rule No. 3.10 - Sulfur Oxides		0.2 % by volume (2,000 ppmv)
Permit conditions in Authority to Construct and Permit to Operate imposed by FRAQMD Rule 4.5 Conditional Approval	5 ppm @ 15% O ₂	0.4 lb/hr (~ 0.16 ppmvd @ 15% O ₂) (A)

(A) The following is the calculation of the concentration equivalent, in ppmv, of the lb/hour mass emission limit for SO₂:

$$\begin{aligned}
 \text{SO}_2, \text{ ppmv in the exhaust gas} &= \frac{\text{Volume of SO}_2 \text{ in the gas turbine exhaust}}{\text{Total volume of gas turbine exhaust}} \\
 &= \frac{(0.4 \text{ lb SO}_2/\text{hour}) \times (379 \text{ dscf SO}_2/\text{lb mole SO}_2) / (64 \text{ lb SO}_2/\text{lb mole SO}_2)}{(14,933,640 \text{ dscf/hour exhaust gas, from 02-23-2011 source test})} \\
 &= 0.16 \text{ ppmv SO}_2
 \end{aligned}$$

Pursuant to U.S. EPA White Paper Number 2, the above applicable requirements for NO_x and SO₂ will be streamlined, and only the permit condition related requirements, which are the most stringent requirements, will be incorporated into the Title V permit. A permit shield condition will incorporate the applicable sections of NSPS GG and District Rule 3.10 that are subsumed by the more stringent overlapping requirement.

APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS
Equipment Specific Requirements
Gas Turbine (S-1)

The gas turbine is subject to the following overlapping Applicable Federally Enforceable Requirements for PM:

Applicable Requirement	Emission Limits
FRAQMD Rule 3.2	0.3 grains/dscf at 12% CO ₂
Permit conditions in Authority to Construct and Permit to Operate imposed by SCAPCD Rule 4.5 Conditional Approval	2.5 lbs/hour (equivalent to 0.0052 grains/dscf at 12% CO ₂) (A)

(A) The following is the calculation of the PM concentration limit, in grains/dscf, equivalent to the mass emission limit in lbs/hour:

$$\begin{aligned}
 \text{PM,} & & & (2.5 \text{ lb/hour}) \times (7,000 \text{ grains/lb}) \\
 \text{grains/dscf} & = & \frac{}{(14,912,520 \text{ dscf/hour exhaust gas, from 02-25-2010 source test})} \\
 & = & 0.00117 \text{ grains/dscf (at approximately 2.7\% CO}_2\text{)} \\
 & = & 0.0052 \text{ grains/dscf (at 12\% CO}_2\text{)}
 \end{aligned}$$

Pursuant to the U.S. EPA White Paper Number 2, the above applicable requirements for PM will be streamlined, and only the permit condition related requirement, which is the most stringent requirement, will be incorporated into the Title V permit. A permit shield condition will incorporate Rule 3.2 as it is subsumed by the more stringent overlapping requirement.

NON-FEDERALLY ENFORCEABLE REQUIREMENTS
Facility-wide Requirements

The following FRAQMD rules are not SIP approved, but are applicable to the facility. The Title V permit will list the most relevant of these rules as non-federally enforceable applicable requirements. These rule requirements are only enforceable by the FRAQMD and not by the U.S. EPA or the public.

- 3.16 Fugitive Dust Emissions - adopted 04/11/1994 version
- 4.3 Exemptions from Permit - amended 12/01/2008 version
- 4.4 Standards for Granting Applications - amended 11/1993 version
- 4.7 Denial of Application – adopted 08/1991 version
- 4.9 Action on Applications - adopted 08/1991 version
- 4.10 Appeals - adopted 08/1991 version
- 4.11 State Ambient Air Quality Standards - adopted 08/1991 version
- Regulation 5 Hearing Board Procedures
- Regulation 6 Variances
- Regulation 7 Fees (except for Title V relevant rules)
- Regulation 8 Penalties and Abatement
 - 9.0 Enforcement
 - 9.1 Emission Monitoring
 - 9.2 Records and Reports
 - 9.3 Tests
 - 9.4 Field Inspection
 - 9.7 Permit Actions
 - 9.8 Variance Action
 - 9.9 Notice to Comply
- 10.2 Emission Reduction Banking Credit
- 10.6 New Source Performance Standards
- 10.7 Toxics New Source Review
- 11.1 State Airborne Toxic Control Measures
(specifically California Code of Regulations, Title 17, Division 3,

NON-FEDERALLY ENFORCEABLE REQUIREMENTS
Facility-wide Requirements

Chapter 1, Subchapter 7.5, Section 93116, Airborne Toxic Control Measure (ATCM) for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater

TITLE V PERMIT CONDITIONS:

It is recommended that the Feather River Energy Center Title V Federal Operating permit is renewed for a new 5-year period.

See Title V Federal Operating Permit P13007 for permit conditions.

Prepared By:

Date:

Reviewed By:

Date:

Approved By:

Date:

ATTACHMENT A

FRAQMD RULES THAT ARE

“APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS”

FOR FEATHER RIVER ENERGY CENTER

FRAQMD RULES THAT ARE
 "APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS"
 FOR FEATHER RIVER ENERGY CENTER

Indicates a SIP approved rule that was adopted by the Sutter County APCD and has not yet been replaced with the current FRAQMD Rules and Regulations in the SIP.

Rule is Applicable	Rule is SIP Approved	Federally Enforceable	Rule No.	Rule Title and Version	Title V/Federally Enforceable Notes
	●		1.0	Title SIP approved 04/12/1982 - Sutter County APCD	
●	●	●	1.1	Definition SIP approved 04/12/1982 - Sutter County APCD	There are no related conditions included in the permit because of the general nature of the rule.
●			1.1	Definitions amended 8/1/2011	
●	●	●	1.2	Validity SIP approved 04/12/1982 - Sutter County APCD	There are no related conditions included in the permit because of the general nature of the rule.
	●		1.3	Effective Date SIP approved 04/12/1982 - Sutter County APCD	
	●		2	Regulation II: Open Burning SIP approved 12/16/2014	
●	●	●	3.0	Visible Emissions SIP approved 03/19/2025	The related conditions are included in the permit.
	●		3.1	Exceptions to Rule 3.0 SIP approved 03/19/2025	

FRAQMD RULES THAT ARE
 "APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS"
 FOR FEATHER RIVER ENERGY CENTER

Rule is Applicable	Rule is SIP Approved	Federally Enforceable	Rule No.	Rule Title and Version	Title V/Federally Enforceable Notes
●	●	●	3.2	Particulate Matter Concentration SIP approved 03/19/2025	The related conditions are included in the permit.
	●		3.3	Dust and Fumes SIP approved 03/19/2025	
●	●	●	3.4	Separation of Emissions SIP approved 03/19/2025	There are no related conditions included in the permit because of the general nature of the rule.
●	●	●	3.5	Combination of Emissions SIP approved 03/19/2025	There are no related conditions included in the permit because of the general nature of the rule.
●	●	●	3.6	Abrasive Blasting SIP approved 03/19/2025	
	●		3.7	Reduction of Animal Matter SIP approved 03/19/2025	
	●		3.8	Gasoline Dispensing Facilities SIP approved 07/08/2015	
	●		3.9	Incinerator Burning SIP approved 04/12/1982 – Sutter County APCD	
			3.9	Storage of Petroleum Products adopted 06/1991	
●	●	●	3.10	Sulfur Oxides	The related conditions are included in the permit.

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Rule is Applicable	Rule is SIP Approved	Federally Enforceable	Rule No.	Rule Title and Version	Title V/Federally Enforceable Notes
				SIP approved 03/19/2025	
			3.11	Reduced Sulfur Compounds adopted 06/1991	
●	●	●	3.12	Organic Solvents SIP approved 04/12/1982 – Sutter County APCD	There are no related conditions included in the permit because of the general nature of the rule.
			3.12	Benzene ATCM – Retail Service Stations adopted 06/1991	
●	●	●	3.13	Circumvention SIP approved 03/19/2025	The related conditions are included in the permit.
●	●	●	3.14	Surface Preparation and Clean-up SIP approved 04/26/2021	The related conditions are included in the permit
●	●	●	3.15	Architectural Coatings SIP approved 12/08/2015	The related conditions are included in the permit
●			3.16	Fugitive Dust Emissions adopted 04/11/1994	
	●		3.17	Wood Heating Devices SIP approved 12/16/2014	
			3.18	Standards for Municipal Solid Waste Landfills adopted 6/2/1997	

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Rule is Applicable	Rule is SIP Approved	Federally Enforceable	Rule No.	Rule Title and Version	Title V/Federally Enforceable Notes
	●		3.19	Vehicle and Mobile Equipment Coating Operations SIP approved 9/16/2020	
	●		3.20	Wood Products Coating Operations SIP approved 4/23/2015	
	●		3.21	Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters SIP approved 4/23/2015	
	●		3.22	Stationary Internal Combustion Engines SIP approved 04/23/2015	
●	●	●	4.0	General Requirements SIP approved 04/12/1982 – Sutter County APCD	There are no related conditions included in the permit because of the general nature of the rule.
●	●	●	4.1	Permits Required SIP approved 04/12/1982 – Sutter County APCD	There are no related conditions included in the permit because of the general nature of the rule.
●	●	●	4.2	Existing Emission Sources SIP approved 04/12/1982 – Sutter County APCD	There are no related conditions included in the permit because of the general nature of the rule.
●	●	●	4.3	Exemptions from Permit SIP approved 04/12/1982 – Sutter County APCD	There are no related conditions included in the permit because of the general nature of the rule.
●			4.3	Exemptions from Permit amended 10/01/2007	

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●	●	●	4.4	Standards for Granting Applications SIP approved 04/12/1982 – Sutter County APCD	There are no related conditions included in the permit because of the general nature of the rule.
●			4.4	Standards for Granting Applications amended 11/1993	
●	●	●	4.5	Conditional Approval SIP approved 04/12/1982 – Sutter County APCD	The related conditions are included in the permit.
			4.6	Daily Limits	The permittee does not conduct agricultural burning.
●			4.7	Denial of Application	
●	●	●	4.8	Further Information SIP approved 07/29/2022	There are no related conditions included in the permit because of the general nature of the rule.
●			4.9	Action on Application adopted 08/1991	
●			4.10	Appeals adopted 08/1991	
●			4.11	State Ambient Air Quality Standards adopted 08/1991	
	●		4.12	Implementation Plans SIP approved 04/12/1982 – Sutter County APCD	

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●	●	●	4.13	Alteration of Permit SIP approved 04/12/1982 – Sutter County APCD	There are no related conditions included in the permit because of the general nature of the rule.
●	●	●	4.14	Posting of Permit SIP approved 04/12/1982 – Sutter County APCD	There are no related conditions included in the permit because of the general nature of the rule.
●	●	●	4.15	Transfer of Permit SIP approved 04/12/1982 – Sutter County APCD	There are no related conditions included in the permit because of the general nature of the rule.
			4.16	Registration Requirements for Compression Ignition Engines Used in Agricultural Operations amended 10/3/2011	
●			5.0	General	
●			5.1	Hearing Board	
●			5.2	Procedures	
●			5.3	Hearings	
●			5.4	Contents of Petition for Hearings	
●			5.5	Request for Variance	
●			5.6	Appeal from Denial	
●			5.7	Failure to Comply with Rules	

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Rule is Applicable	Rule is SIP Approved	Federally Enforceable	Rule No.	Rule Title and Version	Title V/Federally Enforceable Notes
●			5.8	Answers	
●			5.9	Dismissal of Request for a Hearing	
●			5.10	Place of Hearing	
●			5.11	Notice of Hearing	
●			5.12	Evidence	
●			5.13	Preliminary Matters	
●			5.14	Official Notice	
●			5.15	Continuances	
●			5.16	Decision	
●			5.17	Effective Date of Decision	
●			5.18	Lack of Permit	
●			5.19	Record of Hearing	
●			6.0	Introduction	
●			6.1	Interim Variances	

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Rule is Applicable	Rule is SIP Approved	Federally Enforceable	Rule No.	Rule Title and Version	Title V/Federally Enforceable Notes
●			6.2	Limitation on Granting Variance	
●			6.3	Hearing Board May Impose Other Requirements	
●			6.4	Cash Bond	
●			6.5	Modifying or Revoking Variances	
●			6.6	Variance Time Period	
●			6.7	Variance Action	
●			7.0	Fees, General	
●			7.1	Hearing Board Fees	
●			7.2	Analysis Fees	
●			7.3	Technical Report Fees	
●			7.4	Application Fees	
			7.5	Notification of Operation Fees	
●			7.6	Annual Renewal Fees	
●			7.7	District Cost Determination	

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Rule is Applicable	Rule is SIP Approved	Federally Enforceable	Rule No.	Rule Title and Version	Title V/Federally Enforceable Notes
			7.8	Open Burning Fees	
●			7.9	Air Toxic Hot Spot Fees	
			7.10	Indirect Source Fee	
●			7.11	Emission Reduction Credit (ERC) Banking Fee	
●			7.12	Transfer Fees	
●			7.13	Late Payment	
			7.14	Registration Fees for Compression Ignition (CI) Engines Used in Agricultural Operations	
	●		7.15	Clean Air Act Fees SIP Approved 4/4/2022	
●			8.0	Penalties	
●			8.1	Arrest, Notice to Appear	
●			8.2	Orders for Abatement	
●			8.3	Administrative Civil Penalties	
●			9.0	Enforcement	

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Rule is Applicable	Rule is SIP Approved	Federally Enforceable	Rule No.	Rule Title and Version	Title V/Federally Enforceable Notes
●	●	●	9.1	Emission Monitoring SIP approved 04/12/1982	There are no related conditions included in the permit because of the general nature of the rule.
●	●	●	9.2	Records and Reports SIP approved 04/12/1982	There are no related conditions included in the permit because of the general nature of the rule.
●	●	●	9.3	Tests SIP approved 04/12/1982	The related conditions are included in the permit.
●			9.4	Field Inspection	
●	●	●	9.5	Air Pollution Equipment - Scheduled Maintenance SIP approved 04/12/1982	There are no related conditions included in the permit because of the general nature of the rule.
●	●	●	9.6	Equipment Breakdown SIP approved 03/19/2025	There are no related conditions included in the permit because of the general nature of the rule.
●			9.7	Permit Actions	
●			9.8	Variance Action	
●			9.9	Notice to Comply	
●	●	●	10.1	New Source Review SIP approved 10/5/2015	The related conditions are included in the permit. (80 FR 60047)
●			10.2	Emission Reduction Credit and Banking	

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●	*	●	10.3	Federal Operating Permits	*Although this is not a SIP approved rule, it is applicable because it is part of the approved FRAQMD Title V Permit Program.
	●		10.4	General Conformity SIP Approved 4/23/1999	
			10.5	Transportation Conformity	
●			10.6	New Source Performance Standards	
●			10.7	Toxics New Source Review	
●			10.8	Federal Major Modifications	
	●		10.9	Rice Straw Emission Reduction Credits and Banking SIP Approved 4/23/2015	
●	●	●	10.10	Prevention of Significant Deterioration SIP approved 11/12/2015	
●	*	●	10.12	Acid Deposition Control adopted 4/1/2013	*Although this is not a SIP approved rule, it is part of the approved FRAQMD Title V Permit Program.
●			11.1	State Airborne Toxic Control Measures	
			11.4	Sterilizers and Aerators	

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