

Feather River Air Quality Management District

Serving the Counties of Yuba and Sutter
1007 Live Oak Blvd, Suite B-3
Yuba City, CA 95991
(530) 634-7659 * Fax 634-7660

David Valler
Air Pollution Control Officer

TITLE V FEDERAL OPERATING PERMIT FRAQMD PERMIT NO. P13007

AIRS

PERMIT ISSUED:	PERMIT LAST AMENDED:	PERMIT EXPIRES:
XX xx, 2012	NA	XX xx, 2017

ISSUED TO:

Gilroy Energy Center
5029 South Township Rd
Yuba City, CA 95993

PLANT SITE LOCATION:

Feather River Energy Center
202 Burns Drive
Yuba City, CA 95991

Responsible Official:

Larry Sessions
General Manager
Sutter Energy Center
(530) 821- 2072

Site Contact:

Charles Randall
EH&S Specialist II
Sutter Energy Center
(530) 821-2074

Nature of Business: Electrical Power Production
SIC Code 4911

Reviewed by:

Matt Baldwin, Air Quality Engineer

Date

Issued by:

David Valler, Air Pollution Control Officer

Date

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I. PERMIT SUMMARY

This permit shall serve as a Permit to Operate pursuant to FRAQMD Rule 4.1 (Permits Required) and FRAQMD Rule 10.3 (Federal Operating Permits). This air quality Permit to Operate was evaluated for compliance with FRAQMD, State of California and federal air quality rules and regulations. The following listed rules are those that were found to be applicable at the time of permit review, based on the information submitted with the Title V permit application.

Citation	Description	SIP Approval Date	Federally Enforceable
FRAQMD Rule 1.1	Definitions	04-12-1982	Yes
FRAQMD Rule 1.2	Validity	04-12-1982	Yes
FRAQMD Rule 3.0	Visible Emissions	04-12-1982	Yes
FRAQMD Rule 3.2	Particulate Matter Concentration (see permit shield)	04-12-1982	Yes
FRAQMD Rule 3.4	Separation of Emissions	04-12-1982	Yes
FRAQMD Rule 3.5	Combination of Emissions	04-12-1982	Yes
FRAQMD Rule 3.6	Sand Blasting	04-12-1982	Yes
FRAQMD Rule 3.6	Abrasive Blasting (not SIP approved) 06-1991 amended version	NA	No
FRAQMD Rule 3.10	Sulfur Oxides (see permit shield)	04-12-1982	Yes
FRAQMD Rule 3.11	Posting of Permit	09-22-1972	Yes
FRAQMD Rule 3.12	Organic Solvents	04-12-1982	Yes
FRAQMD Rule 3.13	Circumvention	04-12-1982	Yes
FRAQMD Rule 3.14	Solvent Degreasing	05-03-1982	Yes
FRAQMD Rule 3.15	Architectural Coatings (SIP approved)	05-03-1982	Yes
FRAQMD Rule 3.15	Architectural Coatings (not SIP approved) 11-13-2002 amended version	NA	No
FRAQMD Rule 3.16	Fugitive Dust (not SIP approved)	NA	No

Citation	Description	SIP Approval Date	Federally Enforceable
FRAQMD Rule 4.0	General Requirements	04-12-1982	Yes
FRAQMD Rule 4.1	Permit Requirements	04-12-1982	Yes
FRAQMD Rule 4.2	Existing Emission Sources	04-12-1982	Yes
FRAQMD Rule 4.3	Exemptions from Permit	04-12-1982	Yes
FRAQMD Rule 4.3	Exemptions from Permit (not SIP approved) 10-01-2007 amended version	NA	No
FRAQMD Rule 4.4	Standards for Granting Applications	04-12-1982	Yes
FRAQMD Rule 4.4	Standards for Granting Applications (not SIP approved) 11-1993 amended version	NA	No
FRAQMD Rule 4.5	Conditional Approval	04-12-1982	Yes
FRAQMD Rule 4.6	Standards for Authority to Construct and Permit to Operate (not SIP approved) 06-07-2004 amended version	NA	No
FRAQMD Rule 4.7	Denial of Application (not SIP approved)	NA	No
FRAQMD Rule 4.8	Public Information	04-12-1982	Yes
FRAQMD Rule 4.9	Action on Applications (not SIP approved)	NA	No
FRAQMD Rule 4.10	Appeals (not SIP approved)	NA	No
FRAQMD Rule 4.11	State Ambient Air Quality Standards (not SIP approved) 08/1991 adopted version	NA	No
FRAQMD Rule 4.13	Alteration of Permit	04-12-1982	Yes
FRAQMD Rule 4.14	Posting of Permit	04-12-1982	Yes
FRAQMD Rule 4.15	Transfer of Permit	04-12-1982	Yes
FRAQMD Regulation V	Hearing Board Procedures (not SIP approved)	NA	No
FRAQMD Regulation VI	Variances (not SIP approved)	NA	No

Citation	Description	SIP Approval Date	Federally Enforceable
FRAQMD Regulation VII	Fees (not SIP approved, but relevant parts of the regulation are applicable as part of U.S. EPA approval of the FRAQMD Title V program)	11-21-2003	Yes
FRAQMD Regulation VIII	Penalties and Abatement (not SIP approved)	NA	No
FRAQMD Rule 9.0	Enforcement (not SIP approved)	NA	No
FRAQMD Rule 9.1	Emission Monitoring (not SIP approved)	NA	No
FRAQMD Rule 9.2	Records and Reporting (not SIP approved)	NA	No
FRAQMD Rule 9.3	Tests (not SIP approved)	NA	No
FRAQMD Rule 9.4	Field Inspection (not SIP approved)	NA	No
FRAQMD Rule 9.5	Air Pollution Equipment - Scheduled Maintenance	04-12-1982	Yes
FRAQMD Rule 9.6	Equipment Breakdowns	04-12-1982	Yes
FRAQMD Rule 9.7	Permit Actions (not SIP approved)	NA	No
FRAQMD Rule 9.8	Variance Action (not SIP approved)	NA	No
FRAQMD Rule 9.9	Notice to Comply (not SIP approved)	NA	No
FRAQMD Rule 10.1	New Source Review (Limited approval/disapproval)	NA	Yes
FRAQMD Rule 10.2	Emission Reduction Banking Credit (not SIP approved)	NA	No
FRAQMD Rule 10.3	Federal Operating Permits (not SIP approved but rule is applicable as part of U.S. EPA approval of the FRAQMD Title V program)	11-21-2003	Yes

Citation	Description	SIP Approval Date	Federally Enforceable
FRAQMD Rule 10.6	New Source Performance Standards (not SIP approved)	NA	No
FRAQMD Rule 10.7	Toxics New Source Review (not SIP approved)	NA	No
FRAQMD Rule 10.11	Permitting Requirements for Stationary Sources Emitting Greenhouse Gases(not SIP approved but rule is applicable as part of U.S. EPA approval of the FRAQMD Title V program)	NA	Yes
FRAQMD Rule 11.1 and CARB Air Toxic Control Measure	State of California Air Toxic Control Measure for Chromate Treated Cooling Towers [CCR 93103] (not SIP approved)	03-09-1989 (a)	No
U.S. EPA New Source Performance Standards (NSPS)	General Provisions [40 CFR 60 Subpart A (begin at 60.1)]	06-13-2007 (b)	Yes
U.S. EPA New Source Performance Standards (NSPS)	Standards of Performance for Stationary Gas Turbines [40 CFR 60 Subpart GG (begin at 60.330)] (see permit shield)	02-24-2006 (b)	Yes
U.S. EPA	Chemical Accident Prevention Provisions [40 CFR 68 (begin at 68.1)]	04-09-2004 (b)	Yes
U.S. EPA	Protection of Stratospheric Ozone [40 CFR 82 (begin at 82.1)]	12-28-2007 (b)	Yes

(A) California Air Resources Board adoption date

(B) U.S. EPA promulgation date

Future changes in prohibitory rules may establish requirements that are more stringent. At the FRAQMD level, these requirements may supersede the conditions listed here. For Title V purposes however, the federally enforceable requirements are those found in the Title V permit. Federally enforceable provisions of the Title V permit do not change until the Title V permit is revised.

II. FACILITY DESCRIPTION

The following facility description is for informational purposes only and does not contain any applicable federally enforceable requirements.

The Feather River Energy Center is located at 202 Burns Drive, Yuba City. The facility produces commercial sale electricity to meet peak power demands using one simple cycle combustion gas turbine. The simple cycle unit consists of the following components:

1. One (1) General Electric model LM6000PC natural gas fired turbine with a nominal rating of 49.4 MW.
2. One (1) selective catalytic reduction (SCR) NO_x air pollution control system.
3. One (1) oxidation catalyst CO and ROG air pollution control system.

Support Equipment:

4. Cooling tower, water cooling technology.

Emissions Control Technology

NO_x emissions from the gas turbine are controlled with aqueous ammonia SCR. ROG and CO emissions from each gas turbine are controlled with an oxidation catalyst system.

SO₂ and PM₁₀ emissions from the gas turbine are controlled by the use of natural gas fuel with no emergency use fuel.

III. APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL

A. GENERAL REQUIREMENTS

1. Permit Term

This permit to operate shall be valid for a term of five years from the date of issuance. Permit expiration terminates the stationary source's right to operate unless the source submits a timely and complete Title V permit application for renewal.

[FRAQMD Rule No. 10.3.F.2.o]

2. Permit Renewal

The permittee shall submit a standard FRAQMD application for renewal of the Title V permit, no earlier than 18 months and no later than six months before the expiration date of the current permit to operate.

[FRAQMD Rule No. 10.3.D.2.b and 40 CFR 70.5(a)(1)(iii)]

3. Administrative Permit Amendment

The permittee shall submit a written request to the FRAQMD Air Pollution Control Officer for an administrative permit amendment. The permittee may implement the change addressed in the written request immediately upon submittal of the request.

[FRAQMD Rule No. 10.3.D.4.a]

4. Minor Permit Modification

After obtaining any required preconstruction permits, the permittee shall submit a standard FRAQMD application for each emissions unit affected by the proposed permit revision that qualifies as a minor permit modification. The emissions unit(s) affected by the proposed permit modification shall not commence operation until the FRAQMD Air Pollution Control Officer takes final action to approve the permit revision.

[FRAQMD Rule No. 10.3.D.2.d]

5. Significant Permit Modification

After obtaining any required preconstruction permits, the permittee shall submit a standard FRAQMD application for each emissions unit affected by a proposed permit revision that qualifies as a significant permit modification. Upon request by the FRAQMD Air Pollution Control Officer, the responsible official shall submit copies of the latest preconstruction permit for each affected emissions unit. The emissions unit(s) affected by the proposed permit modification shall not commence operation until the FRAQMD Air Pollution Control Officer takes final action to issue the revised permit or until the requirements of FRAQMD Rule No. 10.3.D.2.c.2 are met.

[FRAQMD Rule No. 10.3.D.2.c]

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

6. Permit Modification for a Condition that is Not Federally Enforceable

For any permit modification of a condition that is not federally enforceable, an owner or operator shall submit a written request in accordance with the requirements of FRAQMD Regulation IV.

[FRAQMD Rule No. 10.3.D.4.b]

7. Modification, Revocation or Reopening for Cause

This 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 of a notification of planned changes or anticipated non-compliance does not stay any permit condition.

[FRAQMD Rule Nos. 10.3.E.8 and 10.3.F.2.k and 40 CFR 70.6(a)(6)(iii)]

8. Application Content and Correctness of Applications

The permittee shall submit a complete application as outlined in FRAQMD Rule No. 10.3 D.3.a.

[FRAQMD Rule No. 10.3.D.3.a]

a. Upon written request of the FRAQMD Air Pollution Control Officer the permittee shall supplement any complete application with additional information within the timeframe specified by the FRAQMD Air Pollution Control Officer.

[FRAQMD Rule No. 10.3.D.3.b.1]

b. The permittee shall promptly provide additional information in writing to the FRAQMD Air Pollution Control Officer upon discovery of submittal of any inaccurate information as part of the application or as a supplement thereto, or of any additional relevant facts previously omitted which are needed for accurate analysis of the application.

[FRAQMD Rule No. 10.3.D.3.b.2.]

c. Intentional or negligent submittal of inaccurate information shall be reason for denial of an application.

[FRAQMD Rule No. 10.3.D.3.b.3.]

9. Payment of fees

Except as provided in Condition No. A.9.a the permittee shall pay an annual supplemental fee for a permit to operate pursuant to FRAQMD Rule 10.3.G as determined by the calculation method in FRAQMD Rule 10.3.G.3, to meet an overall fee rate of \$25 per ton of fee-based potential emissions (CPI adjusted).

[FRAQMD Rule No. 10.3.G and 40 CFR 70.6(a)(7)]

a. There shall not be a supplemental annual fee if the total annual fee rate paid by the source under FRAQMD Regulation VII and California Health and

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

Safety Code Section 44380 (AB 2588 Toxic Hot Spots) equals or exceeds \$25 per ton of fee-based potential emissions (CPI adjusted). Only those AB 2588 Toxic Hot Spots fees that fund direct and indirect costs associated with activities related to the operating permits program as specified in the 1990 Clean Air Act Section 502(b)(3)(A) are to be used to meet the overall fee rate of \$25 per ton of fee-based potential emissions (CPI adjusted).
[FRAQMD Rule No. 10.3.G.2 and 40 CFR 70.6)a)(7)]

10. Right of Entry

The FRAQMD, the Executive Officer of the California Air Resources Board, the U.S. EPA Region 9 Administrator and/or their authorized representatives, upon the presentation of credentials, shall be permitted:

- a. To enter upon the premises where the emission source is located or in which any records are required to be kept under the terms and conditions of this permit;
- b. At mutually agreed upon times to have access to and copy any records required to be kept under terms and conditions of this permit;
- c. To inspect any equipment, operation, or method required in this permit; and
- d. To obtain samples from the emission source or require samples to be taken.
[FRAQMD Rule No. 10.3.F.2.j and 40 CFR 70.6(c)(2)]

11. Compliance

The permittee shall comply with all permit conditions.

[FRAQMD Rule No. 10.3.F.2.k.1 and 40 CFR 70.6 (a)(6)(i)]

12. Non-Compliance

The non-compliance with any permit condition is grounds for permit termination, revocation and reissuance, modification, enforcement action, or denial of permit renewal.

[FRAQMD Rule No. 10.3.F.2.k.3 and 40 CFR 70.6 (a)(6)(i)]

13. Need To Halt or Reduce Activity Not a Defense

The permittee shall not use the "need to halt or reduce a permitted activity in order to maintain compliance" as a defense for non-compliance with any permit condition.

[FRAQMD Rule No. 10.3.F.2.k.4 and 40 CFR 70.6 (a)(6)(ii)]

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

14. Permit Action Does Not Stay any Permit Condition

A pending permit action or notification of anticipated non-compliance does not stay any permit condition.

[FRAQMD Rule No. 10.3.F.2.k.5 and 40 CFR 70.6 (a)(6)(iii)]

15. Property Rights

The permit does not convey property rights or exclusive privilege of any sort.

[FRAQMD Rule No. 10.3.F.2.k.2 and 40 CFR 70.6 (a)(6)(iv)]

16. Information Requested

Within a reasonable time, the permittee shall furnish any information requested by the FRAQMD Air Pollution Control Officer, in writing, for the purpose of determining:

- a. compliance with the permit
- b. whether or not cause exists for a permit or enforcement action.
- c. Upon request the permittee shall also furnish to the permitting authority copies of records required to be maintained by the permit, or for information claimed to be confidential, the permittee may furnish such records along with a claim for confidentiality.

[FRAQMD Rule No. 10.3.F.2.k.6 and 40 CFR 70.6 (a)(6)(v)]

17. Severability

If any provision, clause, sentence, paragraph, section or part of these conditions for any reason is judged unconstitutional or invalid, such judgment shall not affect or invalidate the remainder of these conditions.

[FRAQMD Rule Nos. 1.2, 4.5 and 10.3.F.2.m]

18. Circumvention

The permittee shall not build, erect, install, or use any article, machine, equipment or other contrivance, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission which would otherwise constitute a violation of the State of California Health and Safety Code or the FRAQMD Rules and Regulations. This requirement shall not apply to cases in which the only violation involved is State of California Health and Safety Code Section 41700.

[FRAQMD Rule No. 3.13]

19. Emergency Provisions

- a. *Definition:* An "emergency" or means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

[FRAQMD Rule No. 10.3.F.2.I and 40 CFR 70.6(g)(1)]

- b. *Effect of an emergency:* An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the reporting requirements of Condition No. III.A.19.d of this permit are met.

[40 CFR 70.6(g)(2)]

- c. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
- i. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
 - ii. The facility was at the time being properly operated
 - iii. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and;
 - iv. The permittee submitted notice of the emergency to the permitting authority within two working days of the time when emission limitations were exceeded due to the emergency.

[FRAQMD Rule No. 10.3.F.2.I.2 and 40 CFR 70.6(g)(3)]

- d. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

[FRAQMD Rule No. 10.3.F.2.I.3 and 40 CFR 70.6(g)(4)]

20. Notification and Reporting of Emergency, Upset, or Breakdown Condition

- a. *Definition:* A upset or breakdown is any unforeseeable failure or malfunction of any air pollution control equipment or operating equipment which causes a violation of any emission standard or limitation prescribed by District, California or federal rules, regulations or laws, where such failure or malfunction:
- i. Is not the result of intent, neglect, or disregard of any air pollution control law, rule or regulation;

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

- ii. Is not the result of improper maintenance;
- iii. Does not constitute a nuisance;
- iv. Is not an excessively recurrent breakdown of the same equipment.
[FRAQMD Rule No. 10.3.F.2.g.1]
- b. The FRAQMD and the U.S. EPA shall be notified within 48 hours of any deviation from permit requirements including those attributable to upset or breakdown conditions. Within fifteen (15) calendar days after an upset or breakdown condition, the permittee shall submit a written report to the FRAQMD, including the following:
 - i. Description of malfunctioning equipment or abnormal operation.
 - ii. The date of initial failure and the date normal operations were resumed.
 - iii. Duration of excess emissions.
 - iv. An estimate of the quantity of excess emissions.
 - v. A statement of the cause of the failure.
 - vi. Methods used to restore normal operations.
[FRAQMD Rule No. 10.3.F.2.g and 40 CFR 70.6(a)(3)(iii)(B)]
- c. In order to establish an affirmative defense for any permit deviation resulting from upset, breakdown, malfunction or other emergency, the permittee, shall submit within fifteen (15) calendar days, contemporaneous operating logs, or other relevant evidence demonstrating that:
 - i. An emergency occurred.
 - ii. The permittee identifies the cause(s) of the emergency.
 - iii. The facility was being properly operated at the time of the emergency.
 - iv. The permittee took all reasonable steps to minimize the emissions resulting from the emergency event.
 - v. In any enforcement proceeding, the permittee has the burden of proof for establishing that an emergency occurred.
[FRAQMD Rule No. 10.3.F.2.I.2 and 40 CFR 70.6(g)(2)]

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

21. Monitoring Reports

- a. The permittee shall submit to the FRAQMD Air Pollution Control Officer at least once every six months, unless required more frequently by an applicable requirement, reports of all required monitoring.
 - i. All instances of deviations from Title V permit monitoring conditions must be clearly identified in such reports.
- b. The reporting periods for this permit shall be January 01 through June 30 and July 01 through December 31. The reports shall be submitted by July 31 and January 31 following each reporting period respectively.
- c. All required reports must be certified by the responsible official and shall state that, based on information and belief formed after reasonable inquiry; the statements and information in the document are true, accurate, and complete.
[FRAQMD Rule No. 10.3.F.2.g.2 and 40 CFR 70.6(a)(3)(iii)(A)]

22. Annual Compliance Certification Report

- a. The permittee shall submit to the FRAQMD Air Pollution Control Officer and U.S. EPA (Air-3, U.S. EPA Region 9) every 12 months, a certification of compliance by the responsible official with all terms and conditions contained in the Title V permit, including emission limitations, standards and work practices.
- b. The reporting period for this permit shall be January 01 through December 31. The report shall be submitted by January 31 following the reporting period.
- c. The Compliance Certification Report shall include the following:
 - i. The compliance certification shall include the identification of each term or condition of the permit that is the basis of the certification and the means of determining compliance with the term or condition;
 - ii. The compliance certification shall include the compliance status and method(s) used to determine compliance for the current time period and over the entire reporting period and whether such method(s) provides continuous or intermittent data.
 - iii. The compliance certification shall include any additional inspection, monitoring, or entry requirement that may be promulgated pursuant to Sections 114(a) and 504(b) of the CAA

[FRAQMD Rule No. 10.3.F.2.n and 40 CFR 70.6(b)(5)]

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

23. Responsible Official Shall Certify

Any application form, report, or compliance certification submitted pursuant to these regulations shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under this part shall state that, based on information and belief formed after reasonable inquiry, the statements, and information in the document are true, accurate, and complete.

[FRAQMD Rule No. 10.3.D.3.a.13 and 40 CFR 70.5(d)]

24. Facility-Wide General Operating Requirements

At all times, including periods of startup, shutdown and malfunction, the permittee shall, to the extent practicable, maintain and operate all equipment, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

[FRAQMD Rule No. 4.5 and 40 CFR 60.11(d)]

25. Sampling Facilities

a. The permittee shall provide source-testing ports, platforms, and access ladders that conform to the California Air Resources Board and federal Occupational Health and Safety administration standards.

i. Safe sampling platform(s)

ii. Safe access to sampling platform(s)

iii. Utilities for sampling and testing equipment

iv. Sampling ports adequate for test methods applicable to such facility. This includes constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.

[40 CFR 60.8(e)]

26. Visible Emissions

Unless otherwise specified in this permit, the permittee shall not discharge into the atmosphere from any source whatsoever any contaminant, other than uncombined water vapor, for a period or periods aggregating more than three (3) minutes in any one (1) hour that is:

a. As dark or darker in shade as that designated as No. 2 (or 40% opacity) on the Ringelmann Chart, as published by the United States Bureau of Mines and as determined by U.S. EPA Method 9; or

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

- b. Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subsection (a).

[FRAQMD Rule No. 3.0]

27. Particulate Concentration

Facility shall not emit into the atmosphere from any source particulate matter in excess of 0.3 grains per cubic foot of gas at standard conditions. When the source involves a combustion process, the concentration must be calculated to 12 percent carbon dioxide (CO₂).

[FRAQMD Rule No. 3.2]

28. Solvent Degreasing

Any container of solvent which exceeds 55 gallons capacity shall be covered when not in use and shall be labeled with an instruction to store in a closed condition.

[FRAQMD Rule No. 3.14]

29. Architectural Coating

Any coating applied to stationary structures and their appurtenances, to mobile homes, to pavements, or to curbs shall meet the requirements of FRAQMD Rule 3.15.

[FRAQMD Rule No. 3.15 (05-03-1982 SIP approved version)]

30. Accidental Releases

- a. If the permittee is subject to Section 112(r) of the federal Clean Air Act of 1990 and 40 CFR 68, the permittee shall register and submit to the EPA the required data related to the risk management plan (RMP) for reducing the probability of accidental releases of any regulated substances listed pursuant to Section 112(r)(3) of the CAA as amended in 40 CFR 68.130. The list of substances, threshold quantities and accident prevention regulations promulgated under 40 CFR Part 68 do not limit in any way the general duty provisions under Section 112(r)(1) of the federal Clean Air Act of 1990.

[40 CFR Part 68]

- b. If the permittee is subject to Section 112(r) of the federal Clean Air Act of 1990 and 40 CFR 68, the permittee shall comply with the requirements of 40 CFR Part 68 no later than the latest of the following dates as provided in 68.10(a):

i. June 21, 1999,

ii. Three years after the date on which a regulated substance is first listed under 68.130, or

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

- iii. The date on which a regulated substance is first present above a threshold quantity in a process.
[40 CFR Part 68]
- c. If the permittee is subject to Section 112(r) of the federal Clean Air Act of 1990 and 40 CFR 68, the permittee shall submit any additional relevant information requested by any regulatory agency necessary to ensure compliance with the requirements of 40 CFR Part 68.
[40 CFR Part 68]
- d. If the permittee is subject to Section 112(r) of the federal Clean Air Act of 1990 and 40 CFR 68, the permittee shall annually certify compliance with all applicable requirements of Section 112(r) of the federal Clean Air Act of 1990 as part of the required annual compliance certification.
[40 CFR Part 68]

31. Title VI Requirements (Ozone Depleting Substances)

- a. The permittee, when opening appliances containing CFCs for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
[40 CFR 82 Subpart F]
- b. Equipment used during the maintenance, service, repair, or disposal of appliances containing CFCs must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
[40 CFR 82 Subpart F]
- c. The permittee, when performing maintenance, service, repair, or disposal of appliances containing CFCs, must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
[40 CFR 82 Subpart F]

IV. NON-FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL

A. NON-FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL

The conditions in this section are based on conditions contained in previous locally issued operating permits or rules and regulations that are not part of the State Implementation Plan. Pursuant to 40 CFR 70.6(b)(2), the conditions of this section are enforceable by the FRAQMD only and shall not be enforceable by U.S. EPA or any citizen. This section is exempt from compliance certification requirements of 40 CFR 70.6, and administrative requirements for permit issuance and permit review of 40 CFR 70.7 and 70.8.

GENERAL REQUIREMENTS

1. Acceptance of Conditions

Acceptance of this Permit to Operate is deemed acceptance of all conditions as specified. Failure to comply with any condition of this permit or the FRAQMD Rules and Regulations shall be grounds for revocation of this permit

2. Right to Amend Permit

The FRAQMD reserves the right to amend this permit, if the need arises, in order to insure the compliance of this facility, and/or to abate any public nuisance.

3. Permit Not Transferrable

This permit is not transferable from either one location to another, from one piece of equipment to another or from one person to another without prior FRAQMD approval. In the event a new owner assumes the control of this facility, the FRAQMD shall be notified in writing within ten (10) days of the change of ownership.

4. Operation in Accordance with Permit Submittal

Operation of the equipment must be conducted in compliance with all data and specifications submitted with the application under which this permit was issued. If any provision of this permit is found to be invalid, such finding shall not affect the remaining provisions of this permit.

5. Payment of Fees

The permittee shall be responsible for the payment of annual fees. In the event of facility closure, change in ownership or responsibility, the new owner shall be responsible for any outstanding and/or current fees.

6. Right of Entry

The "Right of Entry", as delineated by the California Health and Safety Code Section 41510 of Division 26, shall apply at all times. FRAQMD staff shall be allowed access to the plant site and pertinent records at all reasonable times for the purposes of inspections, surveys, collecting samples, obtaining data,

NON-FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL (CONTINUED)

reviewing and copying air contaminant emission records, training, and otherwise conducting all necessary functions related to this permit.

7. Permit Condition Familiarity

Operating staff of this facility shall be advised of and be familiar with all the conditions contained in this permit.

8. Maintain Equipment

The physical integrity of all processes and air pollution control equipment shall be maintained at regular intervals to insure minimal discharge of emissions. The basic equipment shall not be operated without the control equipment attached and operating as designed. Equipment manufacturers' recommendations shall be followed diligently.

9. Permit Required for Additions and Alterations

Any additions, deletions, or alterations of the subject equipment, including a change in the method of operation or a change in the location, shall be reported to the FRAQMD. Such alterations may require a new Authority to Construct permit

10. Copy of Permit Maintained at Facility

Permittee shall maintain a copy of all FRAQMD permits at the facility.

11. Nuisance

Facility shall not emit into the atmosphere from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or the public, or which endanger the comfort, repose, health, or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property. (California Health and Safety Code Section 41700)

12. Sulfur Oxides

Facility shall not emit into the atmosphere from any single source of emissions whatsoever any sulfur oxides in excess of 0.2 percent by volume (2,000 ppm) collectively calculated as sulfur dioxide (SO₂).

13. Fugitive Dust

Permittee shall take every reasonable precaution not to cause or allow the emissions of fugitive dust from being airborne beyond the property line from which the emission originates, from any construction, handling or storage activity, or any wrecking, excavation, grading, clearing of land or solid waste disposal operation. Reasonable precautions shall include, but are not limited to:

NON-FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL (CONTINUED)

- a. use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, construction of roadways, or the clearing of land, or
- b. application of asphalt, California approved oils and emulsion substances, water, or suitable chemicals on dirt roads, material stockpiles, and other surfaces which can give rise to airborne dusts, or
- c. and other means approved by the Air Pollution Control Officer.

14. Architectural Coatings

- a. Any coating applied to stationary structures and their appurtenances, to mobile homes, to pavements, or to curbs, shall meet the requirements of FRAQMD Rule No. 3.15.
- b. All VOC containing materials shall be stored in closed containers when not in use. In use includes, but is not limited to: being accessed, filled, emptied, maintained, or repaired. (FRAQMD Rule No. 3.15.C.)

15. Air Toxic Hot Spots

- a. This facility is subject to Division 26, Part 6, Chapter 1 Section 44300 of the California Health and Safety Code (Air Toxics “Hot Spots” Information and Assessment Act of 1987). The owner or operator is responsible for complying with all requirements and deadlines set forth in the regulation.
- b. The FRAQMD reserves the right to require the facility to evaluate the health risk, in accordance with the Toxic Hot Spot Emission Inventory Criteria and Guidelines Regulation, if there is a significant change in population, emissions, emission unit(s) site location or new health data becomes available.

16. Portable Sources

- a. The operation of portable equipment at the facility shall not require modification of this permit provided the permittee verifies that the portable source is registered with the California Air Resources Board and that notification of operation is submitted to the FRAQMD.
 - i. This provision shall not apply if the Portable equipment registered with the California Air Resources Board is operated in such a way that supplements the stationary source operation.
- b. Portable equipment registered by the California Air Resources Board shall operate pursuant to the conditions of the registration. Operation of the equipment, such that the operation invalidates the registration shall not be permitted.

NON-FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL (CONTINUED)

- c. The permittee shall verify that required notifications have been provided to the FRAQMD within 2 days for any portable source that is used more than 24 hours.
- d. If the permittee utilizes or contracts for the use of rented portable equipment the permittee or the unit operator shall comply with the following notification and recordkeeping provisions within 30 days after the end of each calendar quarter:
 - i. The location at which the equipment was operated including the dates at each location.
 - ii. type and quantity of materials processed by each portable unit.
 - iii. The type and quantity of fuel consumed by the portable unit or the daily hours of operation in conjunction with the horsepower rating.

**V. FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
GAS TURBINE**

A. EQUIPMENT DESCRIPTION:

The information specified under this section is enforceable by the FRAQMD, U.S. EPA, CARB, and the public.

The requirements specified under the following sections apply to the following equipment:

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 NOx

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

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
 GAS TURBINE (CONTINUED)**

B. APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC:

The requirements specified under this section are enforceable by the FRAQMD, U.S. EPA, CARB, and the public.

EMISSION LIMIT REQUIREMENTS

1. The gas turbine (S-1) emissions shall not exceed the following limits.
[FRAQMD Rule No. 4.5]

Pollutant	Maximum Allowable Emissions Gas Turbine (S-1) (a) (b)		
	ppmvd at 15% O2	lb/hr	lb/day
ROG	NA	1.3	30.2
NOx (as NO2)	5	9.0	217
SOx	NA	0.4	8.4
CO	6	6.6	158
PM (b)	NA	2.5	60.0

(a) All emissions are calculated on a dry basis. All emission limits shall be measured on a 3-hour average (an average of three one-hour tests for the purpose of source testing and a 3-hour rolling average for a continuous emission monitoring (CEM) system).

(b) Excluding startups and shutdowns as defined in Condition Nos. V.B.5 and V.B.6.

2. The gas turbine (S-1) emissions shall not exceed the following mass emission limits.
[FRAQMD Rule No. 4.5]

Pollutant	Maximum Allowable Emissions Gas Turbine (S-1) (a)				
	January- March lb/quarter	April- June lb/quarter	July- September lb/quarter	October- December lb/quarter	Annual tons/year
ROG	2,716	2,746	2,776	2,776	5.5
NOx (as NO2)	19,520	19,737	19,953	19,953	24.9
SOx	756	764	773	773	1.5
CO	14,258	14,146	14,575	14,575	28.9

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
 GAS TURBINE (CONTINUED)**

Pollutant	Maximum Allowable Emissions Gas Turbine (S-1) (a)				
	January- March lb/quarter	April- June lb/quarter	July- September lb/quarter	October- December lb/quarter	Annual tons/year
PM	5,400	5,460	5,520	5,520	11.0

(a) Excluding startups and shutdowns as defined in Condition Nos. V.B.5 and V.B.6.

EQUIPMENT OPERATION REQUIREMENTS

3. The gas turbine and duct burner combination is authorized to operate 24 hours/day, 7 days/week, and 8760 hours/year.
[FRAQMD Rule 4.5]
4. The cogeneration facility shall exclusively use natural gas as a fuel. No more than 12,000 MMBtu of natural gas shall be combusted at the facility per calendar day.
[FRAQMD Rule 4.5]
5. Startups are defined as the lesser of the first 60 minutes of continuous fuel flow to the Gas Turbine after fuel flow is initiated or the period of time from Gas Turbine flow initiation until the Gas Turbine achieves two consecutive CEM data points in compliance with the emission concentration limits for CO and NOx.
[FRAQMD Rule 4.5]
6. Shutdowns are defined as the lesser of the 30 minute period immediately prior to the termination of fuel flow to the Gas Turbine or the period of time from non-compliance with any requirement for CO and NOx until termination of fuel flow to the Gas Turbine.
[FRAQMD Rule 4.5]

MONITORING REQUIREMENTS

7. The permittee shall install, maintain and operate the following continuous emission monitoring (CEM) systems for monitoring each Gas Turbine exhaust stack.
 - a. A CEM system to measure stack gas NOx concentrations. The CEM system shall meet U.S. EPA monitoring performance specifications in 40 CFR Part 75.
 - b. A CEM system to measure stack gas CO concentrations. The CEM system shall meet U.S. EPA monitoring performance specifications in 40 CFR Part 60 Appendix B, Performance Specification 4 Section 3.

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
GAS TURBINE (CONTINUED)**

- c. A CEM system to measure stack gas O₂ concentrations. The CEM system shall meet U.S. EPA monitoring performance specifications in 40 CFR Part 75.
- d. VOC, SO₂, and PM₁₀ emissions shall be monitored by source test derived predictive emission algorithms.

[FRAQMD Rule No. 4.5, 40 CFR 60 Appendix F and 40 CFR 75]

- 8. The NO_x, CO and O₂ CEM systems shall have the capability of recording NO_x, CO and O₂ concentrations during all operating conditions, including gas turbine startups and shutdowns.

[FRAQMD Rule No. 4.5]

- 9. A Relative Accuracy Test Audit (RATA) shall be conducted at least once every year.
 - a. The RATA for the NO_x monitor shall be conducted in accordance with 40 CFR 75 Appendix B Section 2.3. The RATA may be required semiannually if specified conditions in 40 CFR 75 Appendix B Section 2.3 are not met.
 - b. The RATA for the O₂ monitor shall be conducted in accordance with 40 CFR 75 Appendix B Section 2.3. The RATA may be required semiannually if specified conditions in 40 CFR 75 Appendix B Section 2.3 are not met.
 - c. The RATA for the CO monitor shall be conducted in accordance with 40 CFR 60 Appendix F.

[40 CFR 60 Appendix F and 40 CFR 75 Appendix B]

- 10. Source testing results shall be used to develop predictive emission algorithms to estimate mass emission rates for VOC, SO₂ and PM₁₀ emissions.

[FRAQMD Rule No. 4.5]

- 11. A quality assurance/quality control (QC) program for the CEM system shall be developed and maintained. At a minimum, the plan shall conform to 40 CFR 75 Appendix B Section 1 for NO_x and O₂ and 40 CFR 60 Appendix F for CO.

[40 CFR 60.13(a) and 40 CFR 75 Appendix B]

- 12. A Cylinder Gas Audit (CGA) for the CO monitor shall be conducted in three of four calendar quarters, but need not be performed in the same quarter as a RATA. The CGA shall be conducted in accordance with 40 CFR 60 Appendix F.

[40 CFR 60 Appendix F]

- 13. A Linearity Check for the NO_x and O₂ monitors shall be conducted in each calendar quarter. The Linearity Check shall be conducted in accordance with 40 CFR 75 Appendix B.

[40 CFR 75 Appendix B]

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
GAS TURBINE (CONTINUED)**

14. All audit gases shall have been certified by comparison to National Bureau of Standards (NBS) Standard Reference Materials, NBS/EPA Certified Reference Materials or EPA Protocol Gases.
- a. Documentation shall be made available to the FRAQMD upon request containing gas calibration standard information, including an identification number corresponding to the gas cylinder number, gas mixture constituents and concentrations, and gas cylinder fill and expiration dates.
 - b. If a gas cylinder expiration date is not provided by the gas vendor, a two (2) year expiration date from the cylinder fill date shall apply.
 - c. Gas calibration standards in use beyond the expiration date will be considered a violation of this permit.

[FRAQMD Rule 4.5, 40 CFR 60 Appendix F and 40 CFR 75 Appendix A]

15. The permittee shall determine flow rates from the gas turbine based on the amount of fuel burned, water injected, excess oxygen or other monitored parameters based on methods approved by the FRAQMD Air Pollution Control Officer.

[FRAQMD Rule No. 4.5]

16. Notwithstanding the provisions of 40 CFR 60.334(h)(1) requiring the monitoring of fuel total sulfur content, the permittee may elect not to monitor the total sulfur content of the gaseous fuel combusted in the gas turbines, if the gaseous fuel is demonstrated to meet the definition of natural gas in 40 CFR 60.331(u). The owner or operator shall use one of the following sources of information to make the required demonstration:
- a. The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less; or
 - b. Representative fuel sampling data which show that the sulfur content of the gaseous fuel does not exceed 20 grains/100 scf. At a minimum, the amount of fuel sampling data specified in 40 CFR 75 Appendix D Sections 2.3.1.4 or 2.3.2.4 is required.

[40 CFR 60.334(h)(3)]

EMISSION TESTING REQUIREMENTS

17. The permittee shall perform a ROG, NO_x, CO, and PM source test of the gas turbine every other year or sooner if required by the FRAQMD.
- a. Except as provided in this permit, the tests shall conform to U.S. EPA or CARB methodology and procedures. Reference test methods are California

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
GAS TURBINE (CONTINUED)**

Code of Regulations Title 17 Sections 94101 et. seq., 40 CFR 60 Appendix A and 40 CFR Part 51 Appendix M.

- b. Any deviation from the emission testing requirements shall first be approved by the FRAQMD.
- c. The permittee shall submit a source test protocol to the FRAQMD at least thirty days prior to the scheduled test date.
- d. The permittee shall notify FRAQMD at least ten days prior to any scheduled source test.
- e. The permittee shall submit the results of the source test to the FRAQMD within sixty days following testing.

[FRAQMD Rule No. 4.5; 40 CFR 60.8(c)]

18. The gas turbine shall be source tested at maximum operating capacity to determine the emission rates (lb/hour) and concentrations corrected to 15% oxygen, of the ROG, NO_x, CO and PM.
- a. Testing for PM₁₀ or PM_{2.5} shall be optional, at the discretion of the FRAQMD.
 - b. The oxides of sulfur (SO_x) emissions may be determined by mass balance equations.
 - c. Facility operating parameters under which the test is conducted shall be reported in the test results.

[FRAQMD Rule No. 4.5]

19. Each performance test shall consist of three separate runs using the applicable test method.
- a. Each run shall be conducted for the time and under the conditions specified in the applicable standard.
 - b. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply.
 - c. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the permittee's control, compliance may be determined using the arithmetic mean of the results of the two other runs.

[FRAQMD Rule No. 4.5; 40 CFR 60.8(f)]

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
 GAS TURBINE (CONTINUED)**

RECORDKEEPING REQUIREMENTS

20. The following records shall be continuously maintained on site for the most recent five-year period and shall be made available to the FRAQMD Air Pollution Control Officer upon request. Yearly records as specified in the table below shall be made available for inspection within 30 days of the end of the reporting period.

[FRAQMD Rule No. 4.5, 40 CFR 60.7 and 40 CFR 70.6(c)(1)]

Frequency	Information to be Recorded
Upon occurrence	a. Occurrence and duration of any <ul style="list-style-type: none"> i. Start-up, shutdown or malfunction in operation of the gas turbine. ii. Malfunction of the air pollution control equipment. iii. Periods during which a continuous monitoring system or monitoring device is inoperative. iv. Corrective actions taken. [40 CFR 60.7(b)]
When a source test is performed	b. Records shall be maintained of all monitoring and support information required by any applicable federal requirement, including: <ul style="list-style-type: none"> i. Date, place, and time of sampling. ii. The date(s) analyses were performed. iii. The company or entity that performed the analyses. iv. The analytical techniques or methods used. v. Operating conditions at the time of sampling. vi. Results of the analysis. [FRAQMD Rule No. 4.5 (reflecting FRAQMD Rule No. 10.3.F.2.f) and 40 CFR 70.6(a)(3)(ii)]

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
 GAS TURBINE (CONTINUED)**

Frequency	Information to be Recorded
When a breakdown occurs	<p>c. In the event of a breakdown, malfunction or other emergency, the permittee shall retain properly signed, contemporaneous operating logs, or other relevant evidence that:</p> <ul style="list-style-type: none"> i. An emergency occurred. ii. The permittee identified the cause(s) of the emergency. iii. The facility was being properly operated at the time of the emergency. iv. The permittee took all reasonable steps to minimize the emissions resulting from the emergency event. <p>[FRAQMD Rule No. 4.5 (reflecting FRAQMD Rule No. 10.3.F.2.1.2.e and 40 CFR 70.6(g)(2))]</p>
Hourly	<p>d. Natural gas fuel consumption of the gas turbine. (scf/hour). [FRAQMD Rule No. 4.5]</p> <p>e. NOx emission concentration from the gas turbine. (ppmvd at 15% O2, 3-hour rolling average) [FRAQMD Rule No. 4.5]</p> <p>f. CO emission concentration from the gas turbine. (ppmvd at 15% O2, 3-hour rolling average) [FRAQMD Rule No. 4.5]</p> <p>g. ROG, NOx, SO2, PM and CO hourly mass emissions from gas turbine. (lb/hour)</p> <ul style="list-style-type: none"> i. For those pollutants directly monitored (NOx and CO), the hourly emissions will be from the required CEM system. ii. For those pollutants that are not directly monitored (VOC, SO2 and PM10), the hourly emissions shall be calculated based on FRAQMD approved emission factors. [FRAQMD Rule No. 4.5] <p>h. Hourly electrical production. (MW) [FRAQMD Rule No. 4.5]</p>
Daily	<p>i. ROG, NOx, SOx, PM and CO daily mass emissions from the gas turbine and duct burner combined. (lb/day) [FRAQMD Rule No. 4.5]</p>

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
GAS TURBINE (CONTINUED)**

Frequency	Information to be Recorded
Weekly	j. ROG, NO _x , SO _x , PM and CO quarterly mass emissions from the gas turbine and duct burner combined. (lb/quarter) [FRAQMD Rule No. 4.5]
Yearly	k. ROG, NO _x , SO _x , PM and CO yearly mass emissions from the gas turbine and duct burner combined. (lb/year) [FRAQMD Rule No. 4.5]

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
 GAS TURBINE (CONTINUED)**

REPORTING REQUIREMENTS

21. For each calendar quarter submit to the FRAQMD Air Pollution Control Officer a written report which contains the following information.

[FRAQMD Rule No. 4.5; 40 CFR 60.7]

Frequency	Information to be Reported
Quarterly Submitted by: Jan 31 Apr 30 Jul 31 Oct 31 for the previous calendar quarter	a. Whenever the continuous emissions monitoring system is inoperative except for zero and span checks: <ul style="list-style-type: none"> i. Date and time of non-operation of the continuous emission monitoring system. ii. Nature of the continuous emission monitoring system repairs or adjustments. b. Whenever an emission occurs as measured by the required continuous emissions monitoring system that is in excess of any emission limitation: <ul style="list-style-type: none"> iii. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h) and any conversion factors used. iv. Date and time of the commencement and completion of each period of excess emissions. v. Periods of excess emissions due to startup, shutdown, and malfunction shall be specifically identified. vi. The nature and cause of any malfunction, if known, or the best possible cause of any malfunction if not specifically known. vii. The corrective action taken or preventive measures adopted.

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
 GAS TURBINE (CONTINUED)**

Frequency	Information to be Reported
Quarterly Submitted by: Jan 30 Apr 30 Jul 30 Oct 30 for the previous calendar quarter	c. If there were no excess emissions or the CEM system has not been inoperative, repaired, or adjusted for a calendar quarter such information shall be stated in the report. d. Quarterly, daily, and hourly (daily average) ROG, NOx, SOx, PM and CO emissions from the gas turbine. (lb/quarter, lb/day, lb/hour) viii. For those pollutants directly monitored (NOx and CO), the reported emissions will be from the required CEM system. ix. For those pollutants that are not directly monitored (ROG, SOx and PM), the reported emissions shall be calculated based on FRAQMD approved emission factors. e. Daily net electrical production. (MW/day) f. To be included in the 4th quarter report only: ROG, NOx, SOx, PM and CO annual mass emissions from the gas turbine and duct burner. (lb/year)

**VI. NON-FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT
SPECIFIC
GAS TURBINE (S-1)**

A. NON-FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC

The requirements specified under this section are enforceable by the FRAQMD only.

EMISSION LIMITATION REQUIREMENTS

1. Concentrations of ammonia (NH₃) emissions from the gas turbine (S-1) shall not exceed the following limit.
[FRAQMD Rule No. 4.5]

Pollutant	Maximum Allowable Concentration from Gas Turbine (S-1) ppmv at 15% O ₂
Ammonia (NH ₃)	10 (a) (b)

- (a) Based on 3-hour rolling average, clock hour basis.
- (b) Excluding start-ups and shutdowns as defined in Condition Nos. V.B.5 and V.B.6 in the Gas Turbiner Federally Enforceable Equipment Specific Requirements.

RECORDKEEPING REQUIREMENTS

2. The facility shall continuously maintain the following records on site for the most recent five-year period and shall make them available to the FRAQMD Air Pollution Control Officer upon request.

[FRAQMD Rule No. 4.5]

Frequency	Information to be Recorded
Hourly	a. Ammonia injection rate to the SCR system.

**NON-FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
GAS TURBINE (S-1) (CONTINUED)**

REPORTING REQUIREMENTS

3. For each calendar year submit to the FRAQMD Air Pollution Control Officer a written report which contains the following information.

[FRAQMD Rule No. 4.5]

Frequency	Information to be Reported
Quarterly Submitted by : Jan 30 Apr 30 Jul 30 Oct 30 for the previous calendar quarter	a. Ammonia injection rate to the SCR system. (lb/hour)

EMISSION TESTING REQUIREMENTS

4. Upon request and written notification from the Air Pollution Control Officer, the permittee shall perform an ammonia (NH₃) source test of the gas turbine to verify compliance with Condition No. VI.A.1.
- a. Submit a source test plan to the FRAQMD Air Pollution Control Officer for approval at least 30 days before the source test is to be performed.
 - b. Notify the FRAQMD Air Pollution Control Officer at least 7 days prior to the source testing date.
 - c. During the source test(s), the gas turbine shall be operated at the maximum firing capacity, defined as $\geq 90\%$ of the heat input capacity achievable at the time of the source test, based on then current ambient conditions.
 - d. Submit the source test results to the FRAQMD Air Pollution Control Officer within 60 days after the completion of the source test(s).

[FRAQMD Rule Nos. 4.5 and 9.3]

VII. INSIGNIFICANT EMISSION UNITS

Insignificant emissions units or exempted equipment may be supplemented, replaced, or modified with identical or non-identical equipment without notice provided the exemption status has not changed as defined in current FRAQMD or federal rules.

EXEMPT EQUIPMENT	EQUIPMENT DESCRIPTION	BASIS FOR EXEMPTION
Utility carts, man-lift, fork lift, on-road vehicles	Mobile Equipment (nonroad vehicles)	Rule 4.3 a. and g.
Chiller (cooling tower)	Air intake chiller < 10,000 gpm	Attachment 1 B.3. <10,000 gallon/minute
Air conditioning and office heating	HVAC equipment < 60,000,000 BTU/hr	Rule 4.3 d. and e. Attachment 1 Rule 10.3 B.2.d.
Parts cleaner	Solvent cleaning tank	Rule 3.14 a. Attachment 1, Rule 10.3 B.15 a
Turbine lube oil tanks (vapor pressure < 1.5 psig)	Turbine lube oil tanks (vapor pressure < 1.5 psig)	Rule 3.9 capacity and vapor pressure Attachment 1, Rule 10.3 B.7d
Brazing, welding, soldering associated with maintenance.	Maintenance equipment	Attachment 1, Rule 10.3 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	Attachment 1 Rule 10.3 B
Natural gas supply lines, valves, flanges, compressors.	Any valves, flanges, and unvented (except for emergency pressure relief valves) pressure vessels	Attachment 1 Rule 10.3 B 11
Various oil tanks, vessels, pipelines	Turbine lube and transformer oil	Quantity and vapor pressure below thresholds. Attachment 1 Rule 10.3 B 8

VIII. ACRONYMS, ABBREVIATIONS AND UNITS OF MEASURE

Acronyms, abbreviations and units of measure used in this permit are defined as follows:

ASTM

American Society for Testing and Materials

CAA

The federal Clean Air Act.

CARB

California Air Resources Board.

CFR

The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

CO

Carbon monoxide.

CO₂

Carbon dioxide.

FRAQMD

Feather River Air Quality Management District.

Federally Enforceable

All limitations and conditions which are enforceable by the Administrator of the U.S. EPA including those requirements developed pursuant to 40 CFR Part 51, Subpart I (NSR), Part 52.21 (PSD), Part 60 (NSPS), Part 61 (NESHAPs), Part 63 (HAP) and Part 72 (Permits Regulation, Acid Rain) including limitations and conditions contained in operating permits issued under a U.S. EPA approved program that has been incorporated into the California SIP.

HAP

Hazardous Air Pollutant – Any air pollutant listed in or pursuant to Section 112(b) of the CAA.

NESHAP

National Emission Standards for Hazardous Air Pollutants (see 40 CFR Parts 61 and 63).

ACRONYMS, ABBREVIATIONS AND UNITS OF MEASURE (CONTINUED)

NO_x

Nitrogen oxides.

NSPS

New Source Performance Standards. U.S. EPA standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the federal Clean Air Act and implemented by 40 CFR Part 60.

O₂

Oxygen.

PM

Particulate matter.

PM₁₀

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns.

ROG

Reactive organic gas.

SIP

State Implementation Plan. CARB and FRAQMD programs and regulations approved by U.S. EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the federal Clean Air Act.

SO₂

Sulfur dioxide.

Title V

Title V of the federal Clean Air Act. Title V requires the FRAQMD to operate a federally enforceable operating permit program for major stationary sources and other specified sources.

U.S. EPA

The federal Environmental Protection Agency.

VOC

Volatile Organic Compounds.

ACRONYMS, ABBREVIATIONS AND UNITS OF MEASURE (CONTINUED)

UNITS OF MEASURE:

bhp	=	Brake horsepower
BTU	=	British Thermal Unit
cfm	=	cubic feet per minute
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inch
kg	=	kilogram
max	=	maximum
m ²	=	square meter
min	=	minute
mm	=	millimeter
MM	=	million
ppmv	=	parts per million by volume
ppmw	=	parts per million by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
quarter	=	calendar quarter
scfm	=	standard cubic feet per minute
yr	=	year