

Feather River Air Quality Management District

Serving the Counties of Yuba and Sutter
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David Valler
Air Pollution Control Officer

TITLE V FEDERAL OPERATING PERMIT AND TITLE IV ACID RAIN PERMIT FRAQMD PERMIT No. P13005

**PERMIT
ISSUED:**

July 30, 2010

**PERMIT
LAST AMENDED:**

NA

**PERMIT
EXPIRES:**

July 30, 2015

ISSUED TO:

Calpine Corporation
Sutter Energy Center
5029 South Township Road
Yuba City, CA 95993

PLANT SITE LOCATION:

Sutter Energy Center
5029 South Township Road
Yuba City, CA 95993

Responsible Official:

Scott Reynolds
Plant Manager
Sutter Energy Center
(916) 821- 2072

Site Contact:

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

Nature of Business: Electrical Power/Steam Production
SIC Code 4911

Reviewed by:



Matt Baldwin, Air Quality Engineer

Date

7/30/2010

Issued by:



David Valler, Air Pollution Control Officer

Date

7/30/10

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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
FRAQMD Rule 4.0	General Requirements	04-12-1982	Yes

PERMIT SUMMARY (CONTINUED)

Citation	Description	SIP Approval Date	Federally Enforceable
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

PERMIT SUMMARY (CONTINUED)

Citation	Description	SIP Approval Date	Federally Enforceable
FRAQMD Regulation VI	Variances (not SIP approved)	NA	No
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 (not SIP approved)	NA	No
FRAQMD Rule 10.2	Emission Reduction Banking Credit (not SIP approved)	NA	No

PERMIT SUMMARY (CONTINUED)

Citation	Description	SIP Approval Date	Federally Enforceable
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
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 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 Industrial - Commercial - Institutional Steam Generating Units [40 CFR 60 Subpart Db (begin at 60.40b)] (see permit shield)	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

PERMIT SUMMARY (CONTINUED)

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 Sutter Energy Center facility produces electricity for commercial sale. The facility is located on a 16-acre site located at 5029 South Township Road, Yuba City. The facility operates two combined cycle power blocks. The combined cycle units consist of the following components:

1. Two (2) Siemens Westinghouse, Model 501F, gas turbines, 1,900 MMBTU/hour heat input each, natural gas fueled, each with a nominal rating of 185 MW and a maximum rating of 212 MW.
2. Two (2) duct burners, 170 MMBTU/hour heat input each, natural gas fueled.
3. Two (2) Heat recovery steam generators.
4. One (1) Steam turbine generator, Siemens Westinghouse, Model No. 35-65CC, 180 MW nominal capacity and a maximum rating of 212 MW.
5. Two (2) Selective catalytic reduction (SCR) NOx air pollution control systems.
6. Two (2) Oxidation catalyst CO and ROG air pollution control systems.

Support Equipment:

7. Cooling tower, dry cooling technology.

Emissions Control Technology

NOx emissions from each gas turbine are controlled with dry low NOx combustor technology and a SCR system.

ROG and CO emissions from each gas turbine are controlled with an oxidation catalyst system.

NOx emissions from each duct burner are controlled with low NOx burners and a SCR system.

SO2 and PM10 emissions from each gas turbine and each duct burner 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]

**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.b 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 No. 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), SAC 98-01 §V]

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, SAC 98-01 §VII]

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 of 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 "malfunction" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the

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

source, including 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) SAC 98-01 §IV.B]

- 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.20. of this permit are met.

[40 CFR 70.6(g)(2), SAC 98-01 §IV.B.3.]

- 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 emissions did not exceed the following levels
 - (a) 30 ppm NO_x (1-hour average, corrected to 15% O₂)
 - (b) 20 ppm CO (1-hour average, corrected to 15% O₂)
 - (c) 228 lbs/hour NO_x, (1-hour average)
 - (d) 172 lbs/hour CO (1-hour average)
 - iii. The permitted facility, including the air pollution control equipment and process equipment was being properly operated at the time of the malfunction;
 - iv. Preventative maintenance was regularly performed in a manner consistent with good practice for minimizing emissions;
 - v. The malfunction was not part of a recurring pattern indicative of inadequate design, operation or maintenance
 - vi. The malfunction was not caused by improperly or inadequately designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.
 - vii. During the period of the malfunction the permittee took all reasonable steps to minimize the amount and duration of emissions (including any bypass) that exceeded the emission standards in Conditions V.B.1-5 of this permit. Reasonable steps to minimize emissions could include, but

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

are not limited to, reducing production to the lowest level practicable, reducing the material feed that results in-the-increased emissions, and switching to alternative, less polluting fuels. Where repairs were required, repairs were made in an expeditious fashion when the, operator knew or should have known that applicable emission limitations were being exceeded. Off shift labor and overtime must have been utilized. to the extent practicable, to ensure that such repairs were made as expeditiously as possible.

[FRAQMD Rule No. 10.3.F.2.I.2 and 40 CFR 70.6(g)(3) SAC 98-01 §IV.B.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

- a. 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),
SAC 98-01 §IV.A]**

- b. 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.

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

- 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)]

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 30 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

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

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)]

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.

[SAC 98-01 §X.C.3, 40 CFR 60.8(e)]

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

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; or
- 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 per cent carbon dioxide (CO₂).

[FRAQMD Rule No. 3.2] [see permit shield]

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]

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

- 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
 - 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 AND EQUIPMENT SPECIFIC

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

NON-FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL (CONTINUED)

the purposes of inspections, surveys, collecting samples, obtaining data, 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. Permittee Shall Not Conceal Emission

Permittee shall not build, erect, install, or use any article, machine, equipment or other contrivance, to conceal an emission which would otherwise constitute a violation of the Health and Safety Code of the State of California or of the FRAQMD Rules and Regulations.

11. Breakdown Reporting

In the event that any emission source, air pollution control equipment, or related facility breaks down in such a manner which may cause the emission of air contaminants in violation of any permit condition or applicable rules or regulations, other than as exempted herein, the permittee shall immediately notify the FRAQMD Air Pollution Control Officer of such failure or breakdown and subsequently provide a written statement giving all pertinent facts, including the estimated duration of the breakdown and the total quantity of excess emissions. The FRAQMD Air Pollution Control Officer shall be notified when the condition causing the failure or breakdown has been corrected and the equipment is again in operation.

12. Copy of Permit Maintained at Facility

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

NON-FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL (CONTINUED)

13. 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)

14. Visible Emissions

Facility shall not emit into the atmosphere particulate emissions from any single source which exceeds an opacity equal to or greater than twenty percent (20%) for a period aggregating more than three (3) minutes in any one (1) hour, excluding uncombined water vapor.

15. 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).

16. 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 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; 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; and other means approved by the Air Pollution Control Officer.

17. 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.)

**V. FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
GAS TURBINES NO.1 AND NO. 2
DUCT BURNERS NO. 1 AND NO. 2
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR NOX
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO**

A. EQUIPMENT DESCRIPTION:

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

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

Gas Turbines No. 1 and No. 2

Manufacturer: Siemens Westinghouse
Model No.: 501F
Type: Combined cycle
Emission Control: Steam injection, SCR and Oxidation catalyst
Fuel: Natural gas
Max. Heat Input: 1,900 MMBTU/hour each
Net Output: 185 MW (nominal)/212 MW (maximum) each

Duct Burners No. 1 and No. 2

Manufacturer: Coen
Model No.: FILE# 40D-13445-1-000
Emission Control: Low NOx combustion design, SCR and Oxidation Catalyst
Fuel: Natural gas
Max. Heat Input: 170 MMBTU/hour each

Air Pollution Control Systems No. 1 and No. 2 for NOx

Control Device: Selective Catalytic Reduction
Manufacturer: Cormetech
Venting: Gas Turbines No. 1 and No. 2
Duct Burners No. 1 and No. 2

Air Pollution Control Systems No. 1 and No. 2 for ROG and CO

Control Device: Oxidation catalyst
Manufacturer: Camet
Venting: Gas Turbines No. 1 and No. 2
Duct Burners No. 1 and No. 2

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
GAS TURBINES NO.1 AND NO. 2
DUCT BURNERS NO. 1 AND NO. 2
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR NOX
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
(CONTINUED)**

B. APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC:

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

EMISSION LIMIT REQUIREMENTS

1. The maximum emission concentrations from each gas turbine/duct burner combination shall not exceed the following BACT limits.

[SAC 98-01 § E, F; FRAQMD Rule No. 4.5]

Pollutant	Maximum Allowable Emission Concentrations from Each of: Gas Turbine No. 1 and Duct Burner No. 1 Combination (a) and Gas Turbine No. 2 and Duct Burner No. 2 Combination (a)
VOC	1 ppmvd at 15% O ₂ (b) (d)
NO _x	2.5 ppmvd at 15% O ₂ (c)
SO ₂	1 ppmvd at 15% O ₂ (b)
CO	4 ppmvd at 15% O ₂ (b)

(a) Excluding startups and shutdowns as defined in Condition Nos. V.B.12 and V.B.13.

(b) Based on a 3-hour rolling average, clock hour basis.

(c) Based on a 1-hour average, clock hour basis.

(d) Measured as methane.

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
 GAS TURBINES NO.1 AND NO. 2
 DUCT BURNERS NO. 1 AND NO. 2
 AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR NOX
 AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
 (CONTINUED)**

2. The maximum hourly mass emissions from each gas turbine/duct burner combination shall not exceed the following limits.
[SAC 98-01 § E,F,G; FRAQMD Rule No. 4.5]

Pollutant	Maximum Allowable Mass Emissions from Each of: Gas Turbine No. 1 and Duct Burner No. 1 Combination and Gas Turbine No. 2 and Duct Burner No. 2 Combination			
	In all modes of operation except startup and shutdown (lb/hour)	Startup (lb/hour)	Startup (lb/startup)	Shutdown (lb/shutdown)
VOC	3.51 (a)	16 (b)	59	16
NOx	19.1 (b)	175 (b)	680	80
SO2	4.02 (a)	3.7 (b)	22.2	3.7
PM10	11.5 (a)	9 (b)	54	9
CO	34.3 (a)	902 (b)	2514	100

- (a) Based on 3-hour rolling average, clock hour basis.
 (b) Based on 1-hour average, clock hour basis.

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
GAS TURBINES NO.1 AND NO. 2
DUCT BURNERS NO. 1 AND NO. 2
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR NOX
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
(CONTINUED)**

3. The maximum daily mass emissions from the following combined equipment shall not exceed the following limits.

[SAC 98-01 § E,F,G; FRAQMD Rule No. 4.5]

Pollutant	Maximum Allowable Daily Mass Emissions (a)	
	Gas Turbine No. 1 Gas Turbine No. 2	Duct Burner No. 1 Duct Burner No. 2
VOC	158	lb/day
NOx	1,817	lb/day
SO2	179	lb/day
PM10	541	lb/day
CO	6,528	lb/day

(a) Including startups and shutdowns as defined in Condition Nos. V.B14 and V.B.15.

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
 GAS TURBINES NO.1 AND NO. 2
 DUCT BURNERS NO. 1 AND NO. 2
 AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR NOX
 AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
 (CONTINUED)**

4. The maximum quarterly mass emissions from the following combined equipment shall not exceed the following limits.
[SAC 98-01 § E,F,G; FRAQMD Rule No. 4.5]

Pollutant	Maximum Allowable Quarterly Mass Emissions (a)			
		Gas Turbine No. 1 Gas Turbine No. 2	Duct Burner No. 1 Duct Burner No. 2	
	January- March lb/quarter	April- June lb/quarter	July- September lb/quarter	October- December lb/quarter
VOC	11,850	11,850	11,850	11,850
NOx	102,500	102,500	102,500	102,500
SO2	15,750	15,750	15,750	15,750
PM10	46,200	46,200	46,200	46,200
CO	241,600	241,600	241,600	241,600

(a) Including startups and shutdowns as defined in Condition Nos. Nos. V.B.14 and V.B.15.

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
GAS TURBINES NO.1 AND NO. 2
DUCT BURNERS NO. 1 AND NO. 2
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR NOX
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
(CONTINUED)**

5. The maximum yearly mass emissions from the following combined equipment shall not exceed the following limits.

[SAC 98-01 § E,F,G; FRAQMD Rule No. 4.5]

Pollutant	Maximum Allowable Annual Mass Emissions (a)	
	Gas Turbine No. 1 Gas Turbine No. 2	Duct Burner No. 1 Duct Burner No. 2
VOC	23.7 tons/year	
NOx	205.0 tons/year	
SO2	31.5 tons/year	
PM10	92.4 tons/year	
CO	483.2 tons/year	

(a) Including startups and shutdowns as defined in Condition Nos. Nos. V.B14 and V.B.15.

6. HAP mass emissions from the facility shall not equal or exceed the following limits:

[FRAQMD Rule No. 4.5]

Equipment	Maximum Allowable HAP Emissions (a) (b) tons/year	
	Single HAP	Any Combination of HAPs
Gas Turbine No. 1 Gas Turbine No. 1 Duct Burner No. 1 Duct Burner No. 2	10	25

(a) Including startups and shutdowns as defined in Condition Nos. Nos. V.B14 and V.B.15.

(b) The purpose of this limitation is to qualify the gas turbines for the non-applicability of 40 CFR 63 Subpart YYYYY - National Emission Standards for Hazardous Air Pollutants for Stationary Gas Turbines.

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
GAS TURBINES NO.1 AND NO. 2
DUCT BURNERS NO. 1 AND NO. 2
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR NOX
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
(CONTINUED)**

EQUIPMENT OPERATION REQUIREMENTS

7. The facility shall install, continuously operate, and maintain the following air pollution controls to minimize emissions. Controls listed shall be fully operational upon startup of each Gas Turbine.

- a. Dry low-NOx burners
- b. Selective Catalytic Reduction
- c. Oxidation Catalyst System

[SAC 98-01 §X.B; FRAQMD Rule 4.5]

8. All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this permit shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions.

[40 CFR 60.11(d), SAC 98-01 §III ; FRAQMD Rule 4.5]

9. Gas Turbines No. 1 and No. 2 exhaust stacks shall exhaust at a height of 145 feet and the maximum diameter shall not exceed 18 feet.

[FRAQMD Rule No. 4.5]

10. The facility shall exclusively use California PUC pipeline quality natural gas as fuel.

- a. The fuel gas total sulfur and heat content shall be determined and reported to the FRAQMD by collecting and analyzing a sample on a monthly basis or by providing monthly certification of the natural gas total sulfur and/or heat content issued by the natural gas distributor.

[SAC 98-01 §X.D; FRAQMD Rule No. 4.5]

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
 GAS TURBINES NO.1 AND NO. 2
 DUCT BURNERS NO. 1 AND NO. 2
 AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR NOX
 AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
 (CONTINUED)**

11. The maximum heat input for each gas turbine and duct burner, shall not exceed the following limits.

[FRAQMD Rule No. 4.5]

Equipment	Maximum Allowable Heat Input MMBTU (High Heating Value basis [HHV])		
	Hourly	Daily (a)	Yearly (b)
Gas Turbine No. 1	1,900	45,600	16,644,000
Gas Turbine No. 2	1,900	45,600	16,644,000
Duct Burner No. 1	170	4,080	928,200
Duct Burner No. 2	170	4,080	928,200

(a) Based on 24 hours/day.

(b) Based on 365 days/year.

12. The total yearly hours of gas turbine power augmentation steam Injection shall not exceed the following limits.

[FRAQMD Rule No. 4.5]

Equipment	Maximum Yearly Hours of Gas Turbine Power Augmentation Steam Injection (a) (hours/year)
Gas Turbine No. 1	2000
Gas Turbine No. 2	2000

(a) Based on a calendar year.

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
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DUCT BURNERS NO. 1 AND NO. 2
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR NOX
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
(CONTINUED)**

13. The total yearly hours of duct burner fuel combustion shall not exceed the following limits.

[FRAQMD Rule No. 4.5]

Equipment	Maximum Yearly Hours of Duct Burner Fuel Combustion (a) (hours/year)
Duct Burner No. 1	5460
Duct Burner No. 2	5460

(a) Based on a calendar year.

14. The duration of a gas turbine’s startup period shall not exceed the following limit.

[SAC 98-01 § E,F,G; FRAQMD Rule No. 4.5]

Equipment	Maximum Duration of a Gas Turbine Startup Period (a) (consecutive minutes)
Gas Turbine No. 1	360
Gas Turbine No. 2	360

(a) Gas turbine startup period is defined as the time period commencing with the introduction of fuel flow to the gas turbine and ending at the start of the first 1 hour period when the NOx concentrations do not exceed 2.5 ppmvd at 15% O2 averaged over 1 hour and the CO concentrations do not exceed 4.0 ppm at 15% O2 averaged over 1 hour.

15. The duration of a gas turbine’s shutdown period shall not exceed the following limit.

[FRAQMD Rule No. 4.5]

Equipment	Maximum Duration of a Gas Turbine Shutdown Period (a) (consecutive minutes)
Gas Turbine No. 1	60
Gas Turbine No. 2	60

(a) Gas Turbine shutdown period is defined as the time period commencing with the start of a 15 minute period during which the 15 minute average NOx concentration exceeds 2.5 ppmvd at 15% O2 or the 15 minute average CO

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
GAS TURBINES NO.1 AND NO. 2
DUCT BURNERS NO. 1 AND NO. 2
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AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
(CONTINUED)**

concentration exceeds 4.0 ppm at 15% O₂ and ending when the fuel flow to the gas turbine is discontinued.

16. The maximum cumulative hours of startups and shutdowns for each gas turbine shall not exceed the following limits.

[FRAQMD Rule No. 4.5]

Mode of Operation	Maximum Cumulative Hours of Operation in the Specified Mode of Operation for Each Gas Turbine	
	hours/quarter	hours/year (a)
Startups	102	400
Shutdowns	76	300

(a) Based on a 12-month rolling average.

MONITORING REQUIREMENTS

17. The permittee shall install, maintain, and operate the following continuous emission monitoring (CEM) systems for monitoring each Gas Turbine/Duct Burner exhaust stack.
- a. A CEM system to measure stack gas NO_x concentrations. The CEM system shall meet U.S. EPA monitoring performance specifications in 40 CFR Part 60 Appendix B
 - 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.
 - 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 60 Appendix B.
 - d. VOC, SO₂, and PM₁₀ emissions shall be monitored by source test derived predictive emission algorithms.

[SAC 98-01 §X.H.1; FRAQMD Rule No. 4.5; 40 CFR 60 Appendix F; 40 CFR 75]

18. 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

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
GAS TURBINES NO.1 AND NO. 2
DUCT BURNERS NO. 1 AND NO. 2
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR NOX
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
(CONTINUED)**

startups and shutdowns.

[FRAQMD Rule No. 4.5]

19. 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]
20. 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]
21. 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) Appendix F and 40 CFR 75 Appendix B]
22. 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]
23. 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]
24. 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.

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
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DUCT BURNERS NO. 1 AND NO. 2
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR NOX
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
(CONTINUED)**

- 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 is a violation of this permit.

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

25. The permittee shall determine stack flow rates from the gas turbines and duct burners 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]

26. 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 that show 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)]

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
 GAS TURBINES NO.1 AND NO. 2
 DUCT BURNERS NO. 1 AND NO. 2
 AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR NOX
 AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
 (CONTINUED)**

RECORDKEEPING REQUIREMENTS

27. 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. Quarterly and 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	<p>a. Occurrence and duration of any</p> <ul style="list-style-type: none"> i. start-up, shutdown or malfunction in operation of the gas turbines and duct burners. ii. malfunction of the air pollution control equipment. iii. periods during which a continuous monitoring system or monitoring device is inoperative. <p>[40 CFR 60.7(b)]</p> <p>b. Measurements of the continuous emission monitoring, recorded in a permanent form, including:</p> <ul style="list-style-type: none"> i. continuous monitoring system evaluations; ii. all continuous monitoring systems or monitoring device calibration checks; iii. adjustments and maintenance performed on these systems or devices; iv. performance and all other information required by 40 CFR 60. <p>[SAC 98-01 §H.2]</p>

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
 GAS TURBINES NO.1 AND NO. 2
 DUCT BURNERS NO. 1 AND NO. 2
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 AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
 (CONTINUED)**

Frequency	Information to be Recorded
When a source test is performed	<p>c. Records shall be maintained of all monitoring and support information required by any applicable federal requirement, including:</p> <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. <p>[FRAQMD Rule No. 4.5 (reflecting FRAQMD Rule No. 10.3.F.2.f) and 40 CFR 70.6(a)(3)(ii)]</p>
When a breakdown occurs	<p>d. 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.I.2.e and 40 CFR 70.6(g)(2)]</p>

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
 GAS TURBINES NO.1 AND NO. 2
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 AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
 (CONTINUED)**

Frequency	Information to be Recorded
When a startup occurs	e. Identify which gas turbine conducted the startup and the length of time of the startup. <ul style="list-style-type: none"> i. The cumulative hours of startup for the calendar quarter for the specified gas turbine. (hours of startup/calendar quarter) ii. The cumulative hours of startup for the 12-month rolling average for the specified gas turbine. (hours of startup/year based on a 12-month rolling average) [FRAQMD Rule No. 4.5]
When a shutdown occurs	f. Identify which gas turbine conducted the shutdown and the length of time of the shutdown. <ul style="list-style-type: none"> i. The cumulative hours of shutdown for the calendar quarter for the specified gas turbine. (hours of shutdown/calendar quarter) ii. The cumulative hours of shutdown for the 12-month rolling average for the specified gas turbine. (hours of shutdown/year based on a 12-month rolling average) [FRAQMD Rule No. 4.5]

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 AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
 (CONTINUED)**

Frequency	Information to be Recorded
Hourly	<ul style="list-style-type: none"> <li data-bbox="500 554 1247 659">g. Natural gas fuel consumption of each gas turbine. (MMBTU/hour). [FRAQMD Rule No. 4.5] <li data-bbox="500 680 1247 785">h. Natural gas fuel consumption of each duct burner. (MMBTU/hour). [FRAQMD Rule No. 4.5] <li data-bbox="500 806 1333 953">i. NO_x emission concentration from each gas turbine/duct burner combination. (ppmv_d at 15% O₂, 1 hour average, clock hour basis) [FRAQMD Rule No. 4.5] <li data-bbox="500 974 1398 1121">j. CO emission concentration from each gas turbine/duct burner combination. (ppmv_d at 15% O₂, 3 hour rolling average, clock hour basis) [FRAQMD Rule No. 4.5] <li data-bbox="500 1142 1398 1352">k. VOC, NO_x, SO₂, PM₁₀ and CO hourly mass emissions from Gas Turbine No. 1/Duct Burner No. 1 combination and Gas Turbine No. 2/Duct Burner No. 2 combination. (NO_x lb/hour based on 1 hour average, clock hour basis) (VOC, SO₂, PM₁₀ and CO lb/hour based on 3 hour rolling average, clock hour basis) <ul style="list-style-type: none"> <li data-bbox="548 1373 1398 1436">i. For those pollutants directly monitored (NO_x and CO), the hourly emissions will be from the required CEM system. <li data-bbox="548 1457 1398 1604">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] <li data-bbox="500 1625 1382 1688">l. The portion of the hour that natural gas fuel was combusted in each of the duct burners during the hour. <ul style="list-style-type: none"> <li data-bbox="548 1709 1365 1814">i. The cumulative hours for the calendar year that natural gas fuel was combusted in each of the duct burners. [FRAQMD Rule No. 4.5]

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 AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
 (CONTINUED)**

Frequency	Information to be Recorded
Hourly	<p>m. The portion of the hour that gas turbine power augmentation steam injection was conducted for each gas turbine.</p> <p>i. The cumulative hours for the calendar year that gas turbine power augmentation steam injection was conducted for each gas turbine. [FRAQMD Rule No. 4.5]</p>
Daily	<p>n. VOC, NO_x, SO₂, PM₁₀ and CO daily mass emissions from Gas Turbines No. 1 and No. 2 and Duct Burners No. 1 and No. 2 combined. (lb/day) [FRAQMD Rule No. 4.5]</p>
Quarterly	<p>o. VOC, NO_x, SO₂, PM₁₀ and CO quarterly mass emissions from Gas Turbines No. 1 and No. 2 and Duct Burners No. 1 and No. 2 combined. (lb/quarter) [FRAQMD Rule No. 4.5]</p> <p>p. The cumulative hours of startup for the calendar quarter for each gas turbine. (hours of startup/calendar quarter) [FRAQMD Rule No. 4.5]</p> <p>q. The cumulative hours of shutdown for the calendar quarter for each gas turbine. (hours of shutdown/calendar quarter) [FRAQMD Rule No. 4.5]</p>

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 AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
 (CONTINUED)**

Frequency	Information to be Recorded
Yearly	<p>r. VOC, NO_x, SO₂, PM₁₀ and CO yearly mass emissions from Gas Turbines No. 1 and No. 2 and Duct Burners No. 1 and No. 2 combined. (tons/year) [FRAQMD Rule No. 4.5]</p> <p>s. Total HAP yearly mass emissions and the highest single HAP yearly mass emission from Gas Turbines No. 1 and No. 2 and Duct Burners No. 1 and No. 2 combined. (tons of HAP/year) [FRAQMD Rule No. 4.5]</p> <p>t. The cumulative hours for the calendar year that gas turbine power augmentation steam injection was conducted for each gas turbine. (hours/year) [FRAQMD Rule No. 4.5]</p> <p>u. The cumulative hours for the calendar year that natural gas fuel was combusted in each of the duct burners. [FRAQMD Rule No. 4.5]</p>

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 AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
 (CONTINUED)**

REPORTING REQUIREMENTS

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

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. <p style="text-align: center;">[SAC 98-01 §X.H.4.c]</p> 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"> i. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h) and any conversion factors used. [SAC 98-01 §X.H.4.a] ii. Date and time of the commencement and completion of each period of excess emissions. [SAC 98-01 §X.H.4.a] iii. Periods of excess emissions due to startup, shutdown, and malfunction shall be specifically identified. [SAC 98-01 §X.H.4.b] iv. The nature and cause of any malfunction, if known, or the best possible cause of any malfunction if not specifically known. [SAC 98-01 §X.H.4.b] v. The corrective action taken or preventive measures adopted. [SAC 98-01 §X.H.4.b]

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DUCT BURNERS NO. 1 AND NO. 2
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR NOX
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
(CONTINUED)**

Frequency	Information to be Reported
<p>Quarterly</p> <p>Submitted by:</p> <p>Jan 30 Apr 30 Jul 30 Oct 30</p> <p>for the previous calendar quarter</p>	<p>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. [SAC 98-01 §X.H.4.d]</p> <p>d. VOC, NOx, SO2, PM10 and CO hourly mass emissions from Gas Turbine No. 1/Duct Burner No. 1 combination and Gas Turbine No. 2/Duct Burner No. 2 combination. (NOx lb/hour based on 1 hour average, clock hour basis) (VOC, SO2, PM10 and CO lb/hour based on 3 hour rolling average, clock hour basis)</p> <p>e. VOC, NOx, SO2, PM10 and CO daily mass emissions from Gas Turbines No. 1 and No. 2 and Duct Burners No. 1 and No. 2 combined. (lb/day)</p> <p>f. VOC, NOx, SO2, PM10 and CO quarterly and yearly (report in 4th quarter only) mass emissions from Gas Turbines No. 1 and No. 2 and Duct Burners No. 1 and No. 2 combined. (lb/quarter, tons/year)</p> <p>g. For each gas turbine and each duct burner, the hourly, daily, and yearly (report in 4th quarter report only) fuel use. (MMBTU/time period [HHV])</p> <p>h. For each gas turbine, the quarterly startup, shutdown, and operating hours.</p> <p style="padding-left: 20px;">i. Include duration of each startup and shutdown.</p> <p style="padding-left: 20px;">ii. Include rolling 12-month average for duration of startups and shutdowns.</p> <p style="padding-left: 20px;">i. For each duct burner, the quarterly and yearly (report in 4th quarter only) number of operating hours.</p> <p style="padding-left: 20px;">j. For each gas turbine, the quarterly and yearly (4th quarter only) number of power augmentation steam injection hours.</p> <p>k. Hourly steam production (lb steam/hour)</p>

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 (CONTINUED)**

Frequency	Information to be Reported
Quarterly Submitted by: Jan 30 Apr 30 Jul 30 Oct 30 for the previous calendar quarter	l. Hourly steam injection to the turbine (lb/hour) m. Hourly electrical production (MW) n. Total HAP yearly mass emissions (report in 4th quarter only) and the highest single HAP yearly mass emission (report in 4th quarter only) from Gas Turbines No. 1 and No. 2 and Duct Burners No. 1 and No. 2 combined. (tons of HAP/year)

EMISSION TESTING REQUIREMENTS

29. The permittee shall conduct performance tests for CO, NO_x, PM₁₀, VOC and SO₂ on an annual basis to verify compliance with Condition Nos. V.B.1 and V.B.2 (excluding startup mode and shutdown mode mass emission limits).
- a. The permittee shall perform a VOC source test to verify compliance with the startup mode mass emission limits of Condition No. V.B.2 every 7 years beginning in 2003.
 - b. At least 30 days prior to conducting a source test, the project owner shall submit to the FRAQMD Air Pollution Control Officer and EPA (Attn: AIR 5) for their review and approval, a source test plan to allow time for the development of an approvable performance test plan.
 - c. Notify the FRAQMD Air Pollution Control Officer at least 7 days prior to the source testing date.
 - d. During the source test(s), the gas turbines and duct burners 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.
 - e. Submit the source test results to the FRAQMD Air Pollution Control Officer within 60 days after the completion of the source test(s).

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(CONTINUED)**

- f. The FRAQMD Air Pollution Control Officer may waive annual source testing requirements upon written request and conditioned on an evaluation including but not limited to the maintenance of an adequate compliance margin from prior test results.

[SAC 98-01 §X.C; FRAQMD Rule No. 4.5]

EMISSION REDUCTION CREDIT (ERC) REQUIREMENTS

30. The permittee shall surrender (and has surrendered - See Condition Nos. 29, 30 and 31) ERCs to the FRAQMD Air Pollution Control Officer to offset the following amount of emissions:

Equipment - Gas Turbines No. 1 and No. 2 Duct Burners No. 1 and No. 2	Amount of Emission Offsets for which ERCs are to be Surrendered lb/quarter			
	Quarter 1	Quarter 2	Quarter 3	Quarter 4
ROG	11850	11850	11850	11850
NOx	102500	102500	102500	102500
PM10	46200	46200	46200	46200

31. The following ROG ERCs have been surrendered to the FRAQMD Air Pollution Control Officer to comply with the ROG emission offset requirements as stated in Condition No. 28:

See Attachment A

32. The following NOx ERCs have been surrendered to the FRAQMD Air Pollution Control Officer to comply with the NOx emission offset requirements as stated in Condition No. 28:

See Attachment B

33. The following PM10 ERCs have been surrendered to the FRAQMD Air Pollution Control Officer to comply with the PM10 emission offset requirements as stated in Condition No. 28:

See Attachment C

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(CONTINUED)**

PERMIT SHIELD

34. Compliance with the specified conditions of the Title V permit shall be deemed compliance with the following subsumed requirements.

[U.S. EPA Title V White Paper Number 2 for Improved Implementation of the Part 70 Operating Permits Program]

Title V Permit Condition No.	Subsumed requirement
V.B.2	FRAQMD Rule No. 3.2 - Particulate Matter Concentration
V.B.2, V.B.10	FRAQMD Rule No. 3.10 - Sulfur Oxides
V.B.1, V.B.2, V.B.27, V.B.28	40 CFR 60 Subpart Db - NSPS for Small Industrial - Commercial - Institutional Steam Generating Units (amended 06-13-2007)
V.B.1, V.B.2, V.B.10, V.B.16, V.B.17	40 CFR 60 Subpart GG - Standards of Performance for Stationary Gas Turbines (amended 02-24-2006)
V.B.28	40 CFR 60.7(c) – Notification and Recordkeeping, semi-annual excess emissions reporting and monitoring report to the Subsumed requirements. (amended 02-12-1999)

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(CONTINUED)**

C. ACID RAIN PERMIT

The requirements specified under this subsection are issued in accordance with Title IV and Title V of the federal Clean Air Act, and are enforceable by the FRAQMD, the U.S. EPA and the public.

PERMIT REQUIREMENTS

1. The owners and operators of each affected source and each affected unit at the source shall:
 - a. Operate the equipment units in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
 - b. Have an Acid Rain Permit.

[40 CFR 72.9(a)(2)]

MONITORING REQUIREMENTS

2. The owners and operators and, to the extent applicable, the designated representative of each affected source and each affected unit at the source, shall comply with the monitoring requirements as provided in 40 CFR Parts 74, 75, and 76.
 - a. Sampling and analysis for fuel gas total sulfur content shall comply with the requirements of 40 CFR Part 75 Appendix D.
 - i. Sampling for fuel gas total sulfur content is not required if a valid contract or tariff sheet is used to qualify the gas as pipeline natural gas, as defined in 40 CFR 72.2.
 - ii. If fuel gas sampling is used to qualify the fuel gas as pipeline natural gas, a sample shall be collected and analyzed:
 - a. at least once annually for fuel gas total sulfur content, and
 - b. whenever the fuel gas supply source changes.
 - iii. Provided that the analysis results do not exceed 0.5 grains total sulfur per 100 scf of fuel gas, the default emission rate of 0.0006 lb SO₂/MMBTU shall be used to determine SO₂ mass emissions for the purposes of the Acid Rain Program.

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- iv. If the results of the fuel gas sampling show that the fuel gas does not meet the definition of pipeline natural gas in 40 CFR 72.2, but those results are believed to be anomalous, the owner or operator may document the reasons for believing this in the monitoring plan for the unit, and may immediately perform additional sampling in accordance with 40 CFR 75 Appendix D Section 2.3.1.4(b). In such cases, a minimum of three additional samples must be obtained and analyzed, and the results of each sample analysis must meet the definition of pipeline natural gas.
- v. If the results of the annual and additional samples show that the fuel gas does not meet the definition of pipeline quality gas, the owner or operator shall reclassify the fuel as appropriate and determine the SO₂ emission rate to be used in the Acid Rain Program calculations in accordance with the following:
 - a. If the fuel still qualifies as natural gas under 40 CFR 75 Appendix D Section 2.3.2.4, reclassify the fuel as natural gas and determine the appropriate default SO₂ emission rate for the fuel, according to 40 CFR 75 Appendix D Section 2.3.2.1.1.

[40 CFR 72.9(b)(1) and 40 CFR 75 Appendix D]

- 3. The emissions measurements recorded and reported in accordance with 40 CFR Part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

[40 CFR 72.9(b)(2)]

- 4. The requirements of 40 CFR Parts 74 and 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the federal Clean Air Act and other provisions of the operating permit for the source.

[40 CFR 72.9(b)(3)]

SULFUR DIOXIDE REQUIREMENTS

- 5. The owners and operators of each source and each affected unit at the source shall:
 - a. Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)) not less than

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the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and

- b. Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

[40 CFR 72.9(c)(1)]

6. Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the federal Clean Air Act.

[40 CFR 72.9(c)(2)]

7. Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

[40 CFR 72.9(c)(4)]

8. An allowance shall not be deducted in order to comply with the requirements of 40 CFR 72.9(c)(1)(i) prior to the calendar year for which the allowance was allocated.

[40 CFR 72.9(c)(5)]

9. An allowance allocated by the U.S. EPA Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 and 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

[40 CFR 72.9(c)(6)]

10. An allowance allocated by the U.S. EPA Administrator under the Acid Rain Program does not constitute a property right.

[40 CFR 72.9(c)(7)]

NITROGEN OXIDES REQUIREMENTS

11. The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

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RECORDKEEPING AND REPORTING REQUIREMENTS

12. Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the U.S. EPA Administrator or permitting authority:
- a. The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24. The certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative.
 - b. All emissions monitoring information, in accordance with 40 CFR Part 75, to the extent that 40 CFR Part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
 - c. Copies of all reports, compliance certifications, other submissions, and all records made or required under the Acid Rain Program.
 - d. Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

[40 CFR 72.9(f)(1)]

LIABILITY REQUIREMENTS

13. Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain Permit Application, an Acid Rain Permit, or an exemption under 40 CFR 72.7 or 72.8 shall be subject to enforcement pursuant to Section 113(c) of the federal Clean Air Act. This includes any requirement for the payment of any penalty owed to the United States.

[40 CFR 72.9(g)(1)]

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14. Any person who knowingly makes a false material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to Section 113(c) of the federal Clean Air Act and 18 U.S.C. 1001.

[40 CFR 72.9(g)(2)]

15. No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.

[40 CFR 72.9(g)(3)]

16. Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.

[40 CFR 72.9(g)(4)]

17. Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.

[40 CFR 72.9(g)(5)]

18. Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.

[40 CFR 72.9(g)(6)]

19. Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the federal Clean Air Act.

[40 CFR 72.9(g)(7)]

EFFECT ON OTHER AUTHORITIES

20. No provision of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain Permit or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

- a. Except as expressly provided in Title IV of the federal Clean Air Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected

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AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
(CONTINUED)**

unit from compliance with any other provision of the federal Clean Air Act, including the provisions of Title I of the federal Clean Air Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans.

- b. Limiting the number of allowances a source can hold; provided the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the federal Clean Air Act.
- c. Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law.
- d. Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act.
- e. Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

[40 CFR 72.9(h)]

**VI. NON-FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT
 SPECIFIC
 GAS TURBINES NO.1 AND NO. 2
 DUCT BURNERS NO. 1 AND NO. 2
 AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR NOX
 AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO**

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 each gas turbine and duct burner combination shall not exceed the following limit.

[FRAQMD Rule No. 4.5]

Pollutant	Maximum Allowable Hourly Mass Emissions from Each of: Gas Turbine No. 1 and Duct Burner No. 1 Combination and Gas Turbine No. 2 and Duct Burner No. 2 Combination ppmv at 15% O₂ (measured as NH₃)
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.12 and V.B.13 in the Gas Turbine/Duct Burner Federally Enforceable Equipment Specific Requirements.

2. The maximum hourly mass emissions of ammonia (NH₃) from each gas turbine and duct burner combination shall not exceed the following limit.

[FRAQMD Rule No. 4.5]

Pollutant	Maximum Allowable Hourly Mass Emissions from Each of: Gas Turbine No. 1 and Duct Burner No. 1 Combination and Gas Turbine No. 2 and Duct Burner No. 2 Combination (lb/hour)
Ammonia (measured as NH ₃)	25 (a) (b)

**NON-FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
 GAS TURBINES NO.1 AND NO. 2
 DUCT BURNERS NO. 1 AND NO. 2
 AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR NOX
 AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
 (CONTINUED)**

- (a) Based on 3-hour rolling average, clock hour basis.
- (b) Excluding start-ups and shutdowns as defined in Condition Nos. V.B.12 and V.B.13 in the Gas Turbine/Duct Burner Federally Enforceable Equipment Specific Requirements.

RECORDKEEPING REQUIREMENTS

- 3. 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.

[FRAQMD Rule No. 4.5]

Frequency	Information to be Recorded
Hourly	a. Ammonia injection rate to each of the SCR systems. (lb/hour)

REPORTING REQUIREMENTS

- 4. 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]

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 each of the SCR systems. (lb/hour)

**NON-FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
GAS TURBINES NO.1 AND NO. 2
DUCT BURNERS NO. 1 AND NO. 2
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR NOX
AIR POLLUTION CONTROL SYSTEMS NO. 1 AND NO. 2 FOR ROG AND CO
(CONTINUED)**

EMISSION TESTING REQUIREMENTS

5. The permittee shall perform an ammonia (NH₃) source test of the gas turbines and duct burners every year to verify compliance with Condition Nos. V.D.C.58 and V.D.C.59.
 - 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 turbines and duct burners 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).
 - e. The FRAQMD Air Pollution Control Officer may waive annual source testing requirements upon written request and conditioned on an evaluation including but not limited to the maintenance of an adequate compliance margin from prior test results.

[FRAQMD Rule No. 4.5]

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.

Equipment or Process	Basis for Designation as Insignificant Activity
Vehicles Fork lift	FRAQMD Rule 4.3.a and 4.3.b Vehicles used to transport passengers or freight.
Air conditioners	FRAQMD Rule 4.3.d.1 Air conditioning systems not designed to remove air contaminants.
Solvent cleaning tank Lube oil storage tanks Brazing, welding and soldering associated with maintenance	FRAQMD Rule 4.3.h Uncontrolled emissions that never exceed 2 pounds in any 24-hour period.

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 – (define)

NESHAP

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

NO_x

Nitrogen oxides.

ACRONYMS, ABBREVIATIONS AND UNITS OF MEASURE (CONTINUED)

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.

UNITS OF MEASURE:

BTU = British Thermal Unit
cfm = cubic feet per minute
cm = centimeter
g = grams
gal = gallon
gpm = gallons per minute

ACRONYMS, ABBREVIATIONS AND UNITS OF MEASURE (CONTINUED)

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
RVP	=	Reid vapor pressure
scfm	=	standard cubic feet per minute
yr	=	year

**ATTACHMENT A
ROG ERCS PROVIDED**

The following ROG ERCS have been provided to the FRAQMD Air Pollution Control Officer to comply with the requirements of Condition No. V.B.28.

ERC Certificate No.	Face Value of ROG ERC Certificates Surrendered lb/quarter				IPTR (a)	Offset Ratio	Value Applied to the Project ROG Emission Liability lb/quarter			
	Qtr 1	Qtr 2	Qtr 3	Qtr 4			Qtr 1	Qtr 2	Qtr 3	Qtr 4
98001-01P Bio Fuel	4522	4582	2521	5054	NA	1.2	3768	3818	2100	4211
98001-02P Bio Fuel	0	0	4413	0	NA	1.2	0	0	3677	0
98002-00P Bio Fuel	2512	1625	7286	2807	NA	1.2	2093	1354	6071	2339
98003-00P Bio Fuel	3320	4826	3	5711	NA	1.2	2766	4021	2	4759
98005-00P Bio Fuel	2814	1821	0	650	NA	1.2	2345	1517	0	541
98010-00P Bio Fuel	581	376	0	0	NA	1.2	484	313	0	0
98012-00P Bio Fuel	0	993	0	0	NA	1.2	0	827	0	0
94-1-00P Rosboro	473	0	0	0	NA	1.2	394	0	0	0
Total							11850	11850	11850	11850

(a) IPTR = interpollutant trading ratio

**ATTACHMENT B
NOX ERCS PROVIDED**

The following NOx ERCS (or inter-pollutant traded ROG ERCS) have been provided to the FRAQMD Air Pollution Control Officer to comply with the requirements of Condition No. V.B.28.

ERC Certificate No.	Face Value of NOx/ROG ERC Certificates Surrendered lb/quarter				IPTR (a)	Offset Ratio	Value Applied to the Project NOx Emission Liability lb/quarter			
	Qtr 1	Qtr 2	Qtr 3	Qtr 4			Qtr 1	Qtr 2	Qtr 3	Qtr 4
98001-01P NOx Bio Fuel	3798	3282	1528	4245	NA	1.2	3165	2735	1273	3537
98001-02P NOx Bio Fuel	0	0	2697	0	NA	1.2	0	0	2247	0
98002-00P NOx Bio Fuel	2110	1365	5094	2358	NA	1.2	1758	1137	4245	1965
98002-00P VOC Bio Fuel	0	0	884	0	2.0	1.2	0	0	368	0
98003-00P NOx Bio Fuel	6265	4054	1106	7002	NA	1.2	5220	3378	921	5835
98003-00P VOC Bio Fuel	4138	0	1313	0	2.0	1.2	1724	0	547	0
98005-00P NOx Bio Fuel	2364	1529	417	2642	NA	1.2	1970	1274	347	2201
98005-00P VOC Bio Fuel	0	0	497	0	2.0	1.2	0	0	207	0
98010-00P NOx Bio Fuel	488	316	86	546	NA	1.2	406	263	71	455
98010-00P VOC Bio Fuel	0	0	103	0	2.0	1.2	0	0	42	0

**ATTACHMENT B
NOX ERCS PROVIDED (CONTINUED)**

ERC Certificate No.	Face Value of NOx/ROG ERC Certificates Surrendered lb/quarter				IPTR (a)	Offset Ratio	Value Applied to the Project NOx Emission Liability lb/quarter			
	Qtr 1	Qtr 2	Qtr 3	Qtr 4			Qtr 1	Qtr 2	Qtr 3	Qtr 4
98012-00P NOx Bio Fuel	3249	2103	573	3632	NA	1.2	2707	1752	477	3026
98012-00P VOC Bio Fuel	3868	0	683	0	2.0	1.2	1611	0	284	0
98021-00P NOx Bio Fuel	1726	1117	305	1929	NA	1.2	1438	930	254	1607
98021-00P VOC Bio Fuel	2054	0	363	0	2.0	1.2	855	0	151	0
98022-00P NOx Bio Fuel	3249	2103	573	3632	NA	1.2	2707	1752	477	3026
98022-00P VOC Bio Fuel	3868	0	683	0	2.0	1.2	1611	0	284	0
98023-00P NOx Bio Fuel	3249	2103	573	3632	NA	1.2	2707	1752	477	3026
98023-00P VOC Bio Fuel	3868	0	683	0	2.0	1.2	1611	0	284	0
98024-00P NOx Bio Fuel	3249	2103	573	3632	NA	1.2	2707	1752	477	3026
98024-00P VOC Bio Fuel	3868	0	683	0	2.0	1.2	1611	0	284	0
98025-00P NOx Bio Fuel	3249	2103	573	3632	NA	1.2	2707	1752	477	3026

**ATTACHMENT B
NOX ERCS PROVIDED (CONTINUED)**

ERC Certificate No.	Face Value of NOx/ROG ERC Certificates Surrendered lb/quarter				IPTR (a)	Offset Ratio	Value Applied to the Project NOx Emission Liability lb/quarter			
	Qtr 1	Qtr 2	Qtr 3	Qtr 4			Qtr 1	Qtr 2	Qtr 3	Qtr 4
98025-00P VOC Bio Fuel	3868	0	683	0	2.0	1.2	1611	0	284	0
98027-00P NOx Bio Fuel	912	590	161	1019	NA	1.2	760	491	134	849
98027-00P VOC Bio Fuel	1085	0	192	0	2.0	1.2	452	0	80	0
98028-00P NOx Bio Fuel	1452	940	256	1623	NA	1.2	1210	783	213	1352
98028-00P VOC Bio Fuel	483	0	305	0	2.0	1.2	201	0	127	0
06-5-99-1 NOx Tri Union	6280	6280	6280	6280	NA	1.2	5233	5233	5233	5233
06-5-99-1 VOC Tri Union	0	0	140	0	2.0	1.2	0	0	58	0
98-101-00P NOx Tri Union	3334	3371	3408	3408	NA	1.2	2778	2809	2840	2840
992024-00P NOx Tri Union	16986	16986	16986	16986	NA	1.2	14155	14155	14155	14155
992024-00P VOC Tri Union	0	0	261	0	2.0	1.2	0	0	108	0
95-1-00P NOx Atlantic Oil	10955	10955	10955	10955	NA	1.2	9129	9129	9129	9129

**ATTACHMENT B
NOX ERCS PROVIDED (CONTINUED)**

ERC Certificate No.	Face Value of NOx/ROG ERC Certificates Surrendered lb/quarter				IPTR (a)	Offset Ratio	Value Applied to the Project NOx Emission Liability lb/quarter			
	Qtr 1	Qtr 2	Qtr 3	Qtr 4			Qtr 1	Qtr 2	Qtr 3	Qtr 4
95-1-00P VOC Atlantic Oil	0	0	2526	0	2.0	1.2	0	0	1052	0
9902005-00P NOx Atlantic Oil	5683	5683	5683	5683	NA	1.2	4735	4735	4735	4735
9902005-00P VOC Atlantic Oil	0	0	53	0	2.0	1.2	0	0	22	0
9902029-00P NOx Atlantic Oil	3648	3648	3648	3648	NA	1.2	3040	3040	3040	3040
9902029-00P VOC Atlantic Oil	0	0	39	0	2.0	1.2	0	0	16	0
9902030-00P NOx Atlantic Oil	4536	4536	4536	4536	NA	1.2	3780	3780	3780	3780
9902030-00P VOC Atlantic Oil	0	0	65	0	2.0	1.2	0	0	27	0
94-1-00P NOx Rosboro	21134	21134	21134	18850	NA	1.2	17611	17611	17611	15708
94-1-00P VOC Rosboro	1760	0	1920	0	2.0	1.2	733	0	800	0
EC-0002 Spreckles YSAQMD	0	0	24000	0	NA	1.5	0	0	16000	0
EC-0058 YSAQMD NOx Spreckles	103	3632	0	0	NA	1.5	68	2421	0	0

**ATTACHMENT B
NOX ERCS PROVIDED (CONTINUED)**

ERC Certificate No.	Face Value of NOx/ROG ERC Certificates Surrendered lb/quarter				IPTR (a)	Offset Ratio	Value Applied to the Project NOx Emission Liability lb/quarter			
	Qtr 1	Qtr 2	Qtr 3	Qtr 4			Qtr 1	Qtr 2	Qtr 3	Qtr 4
EC-0059 YSAQMD NOx Spreckles	279	23107	1205	8646	NA	1.5	186	15404	803	5764
EC-0060 YSAQMD NOx Spreckles	328	6649	8698	7778	NA	1.5	218	4432	5798	5185
EC-0061 YSAQMD NOx Spreckles	128	0	3392	0	NA	1.5	85	0	2261	0
Total							102500	10250	102500	10250

(a) IPTR = interpollutant trading ratio

**ATTACHMENT C
PM10 ERCS PROVIDED**

The following PM10 ERCS have been provided to the FRAQMD Air Pollution Control Officer to comply with the requirements of Condition No. V.B.28.

ERC Certificate No.	Face Value of PM10 ERC Certificates Surrendered lb/quarter				IPTR (a)	Offset Ratio	Value Applied to the Project PM10 Emission Liability lb/quarter			
	Qtr 1	Qtr 2	Qtr 3	Qtr 4			Qtr 1	Qtr 2	Qtr 3	Qtr 4
98001-01P Bio Fuel	5087	5683	3387	5685	NA	1.2	4239	4735	2822	4737
98001-02P Bio Fuel	0	0	5884	0	NA	1.2	0	0	4903	0
98002-00P Bio Fuel	2826	1828	10801	3158	NA	1.2	2355	1523	9000	2631
98003-00P Bio Fuel	8390	5429	1481	9378	NA	1.2	6991	4524	1234	7815
98005-00P Bio Fuel	3166	2048	559	3538	NA	1.2	2638	1706	465	2948
98010-00P Bio Fuel	654	423	115	731	NA	1.2	545	352	95	609
98012-00P Bio Fuel	4352	2816	768	4864	NA	1.2	3626	2346	640	4053
98021-00P Bio Fuel	2311	1495	408	2583	NA	1.2	1925	1245	340	2152
98022-00P Bio Fuel	4352	2816	768	4864	NA	1.2	3626	2346	640	4053
98023-00P Bio Fuel	4352	2816	768	4864	NA	1.2	3626	2346	640	4053
98024-00P Bio Fuel	4352	2816	768	4864	NA	1.2	3626	2346	640	4053
98025-00P Bio Fuel	4352	2816	768	4864	NA	1.2	3626	2346	640	4053
98027-00P Bio Fuel	1221	790	215	1365	NA	1.2	1017	658	179	1137
98028-00P Bio Fuel	1945	1258	343	2174	NA	1.2	1620	1048	285	1811

**ATTACHMENT C
 PM10 ERCS PROVIDED (CONTINUED)**

ERC Certificate No.	Face Value of PM10 ERC Certificates Surrendered lb/quarter				IPTR (a)	Offset Ratio	Value Applied to the Project PM10 Emission Liability lb/quarter			
	Qtr 1	Qtr 2	Qtr 3	Qtr 4			Qtr 1	Qtr 2	Qtr 3	Qtr 4
06-5-99-1 Tri Union	31	31	31	31	NA	1.2	25	25	25	25
94-1-00P Rosboro	8058	14638	13561	2484	NA	1.2	6715	12198	11300	2070
EC-0060 YSAQMD Spreckles	0	9684	18528	0	NA	1.5	0	6456	12352	0
Total							46200	46200	46200	46200

(a) IPTR = interpollutant trading ratio