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SACRAMENTO METROPOLITAN
AIR QUALITY
MANAGEMENT DISTRICT

TITLE V FEDERAL OPERATING PERMIT, TITLE IV ACID RAIN PROGRAM PERMIT AND SMAQMD RULE 201 PERMITS TO OPERATE

TITLE V PERMIT NO.: TV2007-14-01

PERMIT ISSUED:	PERMIT LAST AMENDED:	PERMIT EXPIRES:
March 01, 2009	NA	March 01, 2014

PERMIT ISSUED TO:
Sacramento Power Authority
PO Box 15830
Sacramento, CA 95852

FACILITY LOCATION:
Sacramento Power Authority
3215 47th Avenue
Sacramento, CA 95824

RESPONSIBLE OFFICIAL:
James Shetler
SPA Representative
(916) 732-6757

CONTACT PERSON:
Kurt Hook
Facility Manager
(916) 391-2993

NATURE OF BUSINESS:
Municipal Electricity Generation
Process Steam Generation

STANDARD INDUSTRIAL CLASSIFICATION (SIC):
4931

Larry Greene
SMAQMD Air Pollution Control Officer

by: Bruce Nixon
Bruce Nixon, P.E.
Air Quality Engineer

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PERMIT SUMMARY

This permit shall serve as a Permit to Operate pursuant to SMAQMD Rule No. 201 (General Permit Requirements) and SMAQMD Rule No. 207 (Title V - Federal Operating Permit Program). Requirements identified in the permit as non-federally enforceable are not enforceable by the U.S. EPA or the public. However, they are enforceable by the SMAQMD.

The permittee's application for this air quality Permit to Operate was evaluated for compliance with SMAQMD, 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	Rule Adoption Date	Federally Enforceable ?
SMAQMD Rule 101	General Provisions and Definitions	09-03-1998	Yes
SMAQMD Rule 102	Circumvention	05-15-1972	Yes
SMAQMD Rule 105	Emission Statements	04-20-1993	Yes
SMAQMD Rule 201	General Permit Requirements (SIP approved)	11-20-1984	Yes
SMAQMD Rule 201	General Permit Requirements (not SIP approved)	08-24-2006	No
SMAQMD Rule 202	New Source Review (SIP approved)	11-20-1984	Yes
SMAQMD Rule 202	New Source Review (not SIP approved)	02-24-2005	No
SMAQMD Rule 207	Title V - Federal Operating Permit Program (not SIP approved but rule is applicable as part of U.S. EPA approval of the SMAQMD Title V program)	04-26-2001	Yes
SMAQMD Rule 301	Permit Fees - Stationary Source (not SIP approved but Title V fees in rule applicable as part of U.S. EPA approval of the SMAQMD Title V program)	07-02-2007	Yes (Title V provisions only)
SMAQMD Rule 306	Air Toxic Fees (not SIP approved)	03-27-2003	No

PERMIT SUMMARY (continued)

Citation	Description	Rule Adoption Date	Federally Enforceable ?
SMAQMD Rule 307	Clean Air Act Fees	09-26-2002	Yes
SMAQMD Rule 401	Ringelmann Chart	04-05-1983	Yes
SMAQMD Rule 402	Nuisance (not SIP approved)	08-03-1977	No
SMAQMD Rule 403	Fugitive Dust	11-29-1983	Yes
SMAQMD Rule 404	Particulate Matter (see permit shield for specified equipment)	11-20-1984	Yes
SMAQMD Rule 406	Specific Contaminants (see permit shield for specified equipment)	11-29-1983	Yes
SMAQMD Rule 413	Stationary Gas Turbines (see permit shield for specified equipment)	03-24-2005	Yes
SMAQMD Rule 420	Sulfur Content of Fuels (see permit shield for specified equipment)	11-29-1983	Yes
SMAQMD Rule 442	Architectural Coatings (SIP approved)	09-05-1996	Yes
SMAQMD Rule 442	Architectural Coatings (not SIP approved)	05-24-2001	No
SMAQMD Rule 466	Solvent Cleaning (not SIP approved)	09-25-2008	No
SMAQMD Rule 602	Breakdown Conditions: Emergency Variance (not SIP approved)	12-06-1978	No
SMAQMD Rule 801	New Source Performance Standards (not SIP approved)	03-27-2008	No
SMAQMD Rule 904	Airborne Toxic Control Measures (not SIP approved)	03-27-2008	No
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

PERMIT SUMMARY (continued)

Citation	Description	Rule Adoption Date	Federally Enforceable ?
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 for specified equipment)	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 for specified equipment)	02-24-2006 (B)	Yes
U.S. EPA Acid Rain Program	Acid Rain Program [40 CFR 72-78 (begin at 72.1)]	10-19-2007 (B)	Yes

(A) California Air Resources Board adoption date
(B) U.S. EPA promulgation/amendment date

Future changes in prohibitory rules may establish more stringent requirements that may, at the SMAQMD level, 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.

FACILITY DESCRIPTION

Title V Permit Background

Permit Action	Date Permit Issued	Title V Permit No.
Initial Title V permit	03-01-2004	TV1998-14-01
1st Administrative Amendment	09-11-2006	TV1998-14-01A
2nd Administrative Amendment	05-22-2007	TV1998-14-01B

Current Permitting Action

This permit action is the first renewal of the initial Title V Federal Operating Permit that was issued 03-01-2004. The permit number assigned to this Title V permit is TV2007-14-01.

Facility Description

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

Sacramento Power Authority generates electricity for the Sacramento Municipal Utility District (SMUD) and produces process steam for use in the operations of Campbell Soup Company. The project is located on a 5.8-acre site adjacent to the Campbell Soup food processing facility at 3215 47th Avenue, Sacramento.

The cogeneration plant is a combined cycle power block. The combined cycle unit consists of the following components:

Combined Cycle Power System:

1. (1) Siemens V84.2 gas turbine, 1410 MMBTU/hour, natural gas fuel, with a nominal rating of 103 MW.
2. (1) duct burner, 200 MMBTU/hour, natural gas fuel.
3. (1) Heat recovery steam generator.
4. (1) 55.9 MW nominal capacity steam turbine generator.
5. (1) Selective catalytic reduction (SCR) NOx air pollution control system.
6. (1) Oxidation catalyst CO and ROC air pollution control system.

Support Equipment:

7. Cooling tower, 3 cell, 45,000 gallons of water/minute, 4,763,000 cfm air flowrate.

FACILITY DESCRIPTION (continued)

Emissions Control Technology

NOx emissions from the gas turbine are controlled with dry low NOx combustor technology and a SCR system to comply with the NOx concentration limit of 3 ppmvd at 15% O2.

ROC and CO emissions from the gas turbine are controlled with an oxidation catalyst system.

NOx emissions from the duct burner are controlled with low NOx burners and a SCR system to comply with the NOx concentration limit of 3 ppmvd at 15% O2.

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

Steam and Electrical Power Generation Process

Process steam for the Campbell Soup Company food processing plant is extracted from the steam turbine generator during the operation of the combined cycle power block. This process is capable of producing 250,000 pounds per hour of steam supply.

Electricity generated by the gas turbine power plant is interconnected with SMUD's transmission lines and distribution system.

FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

TITLE V PERMIT MODIFICATIONS AND RENEWAL

1. The permittee shall submit to the SMAQMD Air Pollution Control Officer a complete Title V permit application for renewal no later than 12 months prior to the expiration date of the Title V permit.
   [SMAQMD Rule No. 207 Section 301.4]

2. The permittee shall submit to the SMAQMD Air Pollution Control Officer a complete Title V permit application for minor Title V permit modification when applicable. The application shall be submitted after receiving any required preconstruction permit from the SMAQMD and before commencing operation associated with the Minor Title V permit modification.
   [SMAQMD Rule No. 207 Section 301.6]

3. The permittee shall submit to the SMAQMD Air Pollution Control Officer a complete Title V permit application for Significant Title V permit modification when applicable. The application shall not be submitted prior to receiving any required preconstruction permit from the SMAQMD but no later than 12 months after commencing an operation associated with the Significant Title V permit modification. Where an existing federally enforceable Title V permit condition would prohibit such change in operation or the stationary source is not required to obtain a preconstruction permit, the owner or operator must obtain a Title V permit modification before commencing operation.
   [SMAQMD Rule No. 207 Section 301.7]

4. The permittee shall submit to the SMAQMD Air Pollution Control Officer timely updates to the Title V application as new applicable federal requirements become applicable to the source.
   [SMAQMD Rule No. 207 Section 302.1]

5. The permittee shall submit to the SMAQMD Air Pollution Control Officer any additional information necessary to correct any incorrect information in the Title V permit application upon becoming aware of such incorrect submittal or if the applicant is notified by the SMAQMD Air Pollution Control Officer of such incorrect submittal.
   [SMAQMD Rule No. 207 Section 302.2]

6. The permittee shall submit to the SMAQMD Air Pollution Control Officer any additional information relating to the Title V application within 30 days if such information is requested in writing by the SMAQMD Air Pollution Control Officer.
   [SMAQMD Rule No. 207 Section 302.3]

7. Title V permit expiration terminates the stationary source's right to operate unless a timely and complete Title V permit application for renewal has been submitted and the stationary source complies with SMAQMD Rule No. 207 Sections 303.1(a), (b), (c) and (d), in which case the existing Title V permit will remain in effect until the Title V permit renewal has been issued or denied.
   [SMAQMD Rule No. 207 Section 303.2]

FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

8. Any Title V application form, report, or compliance certification submitted pursuant to a federally enforceable requirement in this permit shall contain certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
   [SMAQMD Rule No. 207 Section 304]

9. This Title V permit shall have a 5-year fixed term from the date of issuance. The Title V permit shall have a new 5-year fixed term from the date of final action on reopening if the responsible official chooses to submit to the SMAQMD a complete Title V application for renewal upon reopening of the Title V permit pursuant to SMAQMD Rule No. 207 Sections 411 or 412, and the Title V permit is renewed according to the administrative procedures listed in SMAQMD Rule No. 207 Sections 401 through 408.
   [SMAQMD Rule No. 207 Section 306]

COMPLIANCE

10. The permittee shall comply with all conditions of the Title V permit.
    [SMAQMD Rule No. 207 Section 305.1(k)(1)]

11. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the Title V permit.
    [SMAQMD Rule No. 207 Section 305.1(k)(2)]

12. This Title V permit may be modified, revoked, reopened, and reissued, or terminated for cause.
    [SMAQMD Rule No. 207 Section 305.1(k)(3)]

13. The permittee shall furnish to the SMAQMD Air Pollution Control Officer, within a reasonable time, any information that the SMAQMD Air Pollution Control Officer may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit pursuant to SMAQMD Rule No. 207 Section 411, or to determine compliance with this Title V permit. Upon request, the permittee shall also furnish to the SMAQMD Air Pollution Control Officer copies of records required to be kept by conditions of this permit or, for information claimed to be confidential, the permittee may furnish such records directly to the U.S. EPA along with a claim of confidentiality.
    [SMAQMD Rule No. 207 Section 305.1(k)(4)]

14. Noncompliance with any federally enforceable requirement in this Title V permit is grounds for Title V permit termination, revocation and reissuance, modification, enforcement action or denial of the Title V permit renewal application. Any violation of the Title V permit shall also be a violation of SMAQMD Rule No. 207.
    [SMAQMD Rule No. 207 Section 305.1(k)(5)]

15. A pending Title V permit action (e.g. a proposed permit revision) or notification of anticipated noncompliance does not stay any permit condition.
    [SMAQMD Rule No. 207 Section 305.1(k)(6)]

FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

16. This Title V permit does not convey any property rights of any sort or any exclusive privilege. **[SMAQMD Rule No. 207 Section 305.1(k)(7)]**

17. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the SMAQMD Air Pollution Control Officer or an authorized representative to perform all of the following:

    A. Enter upon the stationary source's premises where this source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

    B. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Title V permit;

    C. Inspect at reasonable times, the stationary source, equipment (including monitoring and air pollution control equipment), practices and operations regulated or required under this Title V permit, and;

    D. As authorized by the Federal Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the Title V permit conditions or applicable federal requirements.

    [SMAQMD Rule No. 207 Section 413.1]

REPORTS AND RECORDKEEPING

18. **Monitoring Reports**

    A. The permittee shall submit to the SMAQMD 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 30 and January 30 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.

    [SMAQMD Rule No. 207 Section 501.1]

FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

19. **Compliance Reports**

A. The permittee shall submit to the SMAQMD Air Pollution Control Officer and U.S. EPA (Air-3, U.S. EPA, Region IX) on an annual basis, unless required more frequently by additional applicable federal requirements such as Section 114(a)(3) and 504(b) (42 U.S.C. Sections 7414(a)(3) and 7661c(b)) of the Federal Clean Air Act, 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. 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.

D. The Compliance Certification Report shall include the following:

i. The identification of each term or condition of the Title V permit that is the basis of the certification.

ii. The method(s) used for determining the compliance status of the source, currently and over the reporting period, and whether such method(s) provides continuous or intermittent data.

iii. The status of compliance with the terms and conditions of the Title V permit for the period covered by the certification, based on the method designated in Section D.ii of this condition.

iv. Such other facts as the SMAQMD Air Pollution Control Officer may require to determine the compliance status of the source.

v. In accordance with SMAQMD Rule No. 207 Section 305, a method for monitoring the compliance of the stationary source with its emissions limitations, standards and work practices.

[SMAQMD Rule No. 207 Section 413.4]

20. The permittee shall report, within 24 hours of detection, any deviation from a federally enforceable Title V permit condition not attributable to an emergency. In order to fulfill the reporting requirement of this condition, the permittee shall notify the SMAQMD Air Pollution Control Officer by telephone followed by a written statement describing the nature of the deviation from the federally enforceable permit condition.
[SMAQMD Rule No. 207 Section 501.3]

FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

21. All monitoring data and support information required by a federally enforceable applicable requirement must be kept by the permittee for a period of 5 years from the date of the monitoring sample, measurement, report or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the federally enforceable applicable requirements in the Title V permit.
[SMAQMD Rule No. 207 Section 502.3]

RINGELMANN CHART

22. Except as otherwise provided in SMAQMD Rule No. 401 Section 100, the permittee shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant, other than uncombined water vapor, for a period or periods aggregating more than three minutes in any one hour which is:

    A. As dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or

    B. Of such opacity as to obscure a human observer's view, or a certified calibrated in-stack opacity monitoring system to a degree equal to or greater than No. 1 on the Ringelmann Chart.

    [SMAQMD Rule No. 401 Section 301]

PARTICULATE MATTER

23. The 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:

    A. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the construction of roadways or the clearing of land.

    B. Application of asphalt, oil, water, or suitable chemicals on dirt roads, materials stockpiles and other surfaces which can give rise to airborne dusts;

    C. Other means approved by the SMAQMD Air Pollution Control Officer.

    [SMAQMD Rule No. 403 Section 301]

24. Except as otherwise provided in SMAQMD Rule No. 406, the permittee shall not discharge into the atmosphere, from any source, particulate matter in excess of 0.23 grams per dry standard cubic meter (0.1 grains per dry standard cubic foot).
[SMAQMD Rule No. 404 Section 301] [see permit shield for specific equipment - Cooling Tower]

FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

25. The permittee shall not discharge into the atmosphere particulate matter from the burning of any kind of material containing carbon in a free or combined state, from any single source of emission whatsoever, combustion contaminants in any state or combination thereof exceeding in concentration at the point of discharge: 0.23 grams per dry standard cubic meter (0.1 grains per dry standard cubic foot) of gas calculated to 12% carbon dioxide (CO2) at standard conditions.
[SMAQMD Rule No. 406 Section 302] [see permit shield for specific equipment - Gas Turbine]

SULFUR COMPOUNDS

26. The permittee shall not discharge into the atmosphere, from any single source of emission whatsoever, sulfur compounds in any state or combination thereof exceeding in concentration at the point of discharge: sulfur compounds, calculated as sulfur dioxide (SO2): 0.2% by volume.
[SMAQMD Rule No. 406 Section 301] [see permit shield for specific equipment - Gas Turbine]

27. Except as otherwise provided in SMAQMD Rule No. 420 Section 110, the permittee shall not burn any gaseous fuel containing sulfur compounds in excess of 1.14 grams per cubic meter (50 grains per 100 cubic feet) of gaseous fuel, calculated as hydrogen sulfide at standard conditions, or any liquid fuel or solid fuel having a sulfur content in excess of 0.5% by weight.
[SMAQMD Rule No. 420 Section 301] [see permit shield for specific equipment - Gas Turbine]

ARCHITECTURAL COATING

28. Any coating applied to stationary structures and their appurtenances, to mobile homes, to pavements, or to curbs, shall meet the requirements of SMAQMD Rule No. 442.
[SMAQMD Rule No. 442 (09-05-1996 version)]

29. 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.
[SMAQMD Rule No. 442 Section 304 (09-05-1996 version)]

30. The permittee shall not use volatile organic compounds for the cleanup of spray equipment unless equipment for collection of the cleaning compounds and minimizing its evaporation to the atmosphere is used.
[SMAQMD Rule No. 442 Section 305 (09-05-1996 version)]

31. The permittee shall keep a record of all architectural coatings purchased that are not clearly labeled as complying with the VOC content limits contained in SMAQMD Rule No. 442. Compliance in these cases can be determined by maintaining records of the manufacturer's certifications or by Material Safety Data Sheets (MSDS) that demonstrate compliance with the VOC limits of SMAQMD Rule No. 442.
[SMAQMD Rule No. 442 (09-05-1996 version) and SMAQMD Rule No. 207 Section 305]

FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

EQUIPMENT BREAKDOWNS

32. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology based emission limitations if the following conditions are met:

    A. The affirmative defense of an 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 permitted facility was at the time being properly operated.

        iii. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the Title V permit.

        iv The permittee submitted notice of the emergency to the SMAQMD Air Pollution Control Officer within two working days of the time when emissions limitations were exceeded due to the emergency. The notice must contain a description of the emergency and corrective actions taken.

    B. In any enforcement proceedings, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

    [SMAQMD Rule No. 207 Section 414]

33. The permittee shall notify the SMAQMD Air Pollution Control Officer of any occurrence which constitutes an emergency as defined in SMAQMD Rule No. 207 Section 212 as soon as reasonably possible, but no later than one hour after its detection. If the emergency occurs when the SMAQMD Air Pollution Control Officer cannot be contacted, the report of the emergency shall be made at the commencement of the next regular working day. The notification shall identify the time, specific location, equipment involved and, to the extent known, the cause(s) of the occurrence.
    [SMAQMD Rule No. 207 Section 501.2]

PAYMENT OF FEES

34. The fee for (1) the issuance of an initial Title V operating permit, (2) the renewal and/or inspection of a Title V operating permit, (3) the modification of a Title V operating permit or (4) an administrative Title V permit amendment shall be based on the actual hours spent by the SMAQMD staff in evaluating the application and processing the operating permit. The fee shall be assessed in accordance with the hourly rate established in SMAQMD Rule No. 301 Section 308.12.
    [SMAQMD Rule No. 207 Section 305.7 and SMAQMD Rule No. 301 Section 313]

FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

35. After the provisions for granting permits as set forth in SMAQMD Rule No. 207 have been complied with, the permittee will be notified by mail of the fee due and payable and the date the fee is due. If the fee is not paid by the specified due date, the fee shall be increased by one half the amount and the applicant/permittee shall be notified by mail of the increased fee. If the increased fee is not paid within 30 days after notice the application/permit will be canceled/revoked and the applicant/permittee will be notified by mail.
[SMAQMD Rule No. 207 Section 305.7]

CLEAN AIR ACT FEES

36. After the U.S. EPA determines that the SMAQMD has failed to demonstrate attainment of the one hour ozone ambient air quality standard by the attainment year, the permittee, operating any major stationary source of ROC or NOx, shall pay the Clean Air Act fees specified by the SMAQMD Air Pollution Control Officer in accordance with SMAQMD Rule No. 307.
[SMAQMD Rule No. 307]

EMISSION STATEMENTS

37. The permittee, when operating any stationary source that emits 25 tons or more per year of ROC or NOx, shall annually provide the SMAQMD Air Pollution Control Officer with a written emission statement showing actual emissions of ROC and NOx from that source.
[SMAQMD Rule No. 105]

ACCIDENTAL RELEASES

38. 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 68]

39. 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):

    A. June 21, 1999,

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

    C. The date on which a regulated substance is first present above a threshold quantity in a process.

    [40 CFR 68]

FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

40. 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 68]

41. 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 annual compliance certification as required by SMAQMD Rule No. 207 Section 413.4.
[40 CFR 68]

TITLE VI REQUIREMENTS (OZONE DEPLETING SUBSTANCES)

42. 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]

43. 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]

44. 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]

***NON*-FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL**

APPLICABILITY

1. The requirements outlined in this section are applicable to the SMAQMD Rule No. 201 Permits to Operate only and are not an enforceable part of the Title V permit.

SMAQMD RULE NO. 201 PERMIT RENEWAL

2. Permits to Operate issued, pursuant to SMAQMD Rule No. 201 (non-Title V Permits to Operate), shall be renewed annually on June 30 and upon payment of the permit renewal fee established pursuant to SMAQMD Rule No. 301.

3. The SMAQMD Air Pollution Control Officer shall review every SMAQMD Rule No. 201 Permit to Operate upon annual renewal, pursuant to California Health and Safety Code Section 42301(c), to determine that permit conditions are adequate to ensure compliance with, and the enforceability of, SMAQMD rules and regulations applicable to the article, machine, equipment or contrivance for which the permit was issued. Applicable SMAQMD rules and regulations shall include those which were in effect at the time the permit was issued or modified, or which have subsequently been adopted and made retroactively applicable to an existing article, machine, equipment or contrivance, by the SMAQMD Board of Directors. The SMAQMD Air Pollution Control Officer shall revise the conditions, if such conditions are not consistent, in accordance with all applicable rules and regulations.

GENERAL

4. The SMAQMD Air Pollution Control Officer and/or authorized representatives, upon the presentation of credentials shall be permitted:

   A. To enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this permit to operate, and

   B. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this Permit to Operate, and

   C. To inspect any equipment, operation, or method required in this Permit to Operate, and

   D. To sample emissions from the source or require samples to be taken.

5. Legible copies of all SMAQMD Rule No. 201 permits shall be maintained on the premises with the equipment.

EQUIPMENT OPERATION

6. The equipment shall be properly maintained.

7. This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26, Part 4, Chapter 3, of the Health and Safety Codes of the State of California or the Rules and Regulations of the Sacramento Metropolitan Air Quality Management District.

***NON*-FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL**

EQUIPMENT BREAKDOWNS

8. The permittee shall notify the SMAQMD Air Pollution Control Officer of any occurrence which constitutes a breakdown as defined in SMAQMD Rule No. 602 Section 201 as soon as reasonably possible, but no later than one hour after its detection. If the breakdown occurs when the SMAQMD Air Pollution Control Officer cannot be contacted, the report of breakdown shall be made at the commencement of the next regular working day. The notification shall identify the time, specific location, equipment involved, and to the extent known, the cause(s) of the occurrence.

9. Upon notification of the breakdown condition, the SMAQMD Air Pollution Control Officer shall investigate the breakdown condition in accordance with uniform written procedures and guidelines relating to logging of initial reports on appropriate forms, investigation, and enforcement follow-up. If the occurrence does not constitute a breakdown condition, the SMAQMD Air Pollution Control Officer may take appropriate enforcement action.

10. An occurrence which constitutes a breakdown condition, and which persists only until the end of the production run or 24 hours, whichever is sooner (except for continuous air pollution monitoring equipment, for which the period shall be 96 hours) shall constitute a violation of any applicable emission limitation or restriction prescribed by SMAQMD Rules and Regulations; however, the SMAQMD Air Pollution Control Officer may elect to take no enforcement action if the owner or operator demonstrates to his satisfaction that a breakdown condition exists and the following requirements are met:

    A. The notification required in SMAQMD Rule No. 602 Section 301.1 is made; and

    B. Immediate appropriate corrective measures are undertaken and compliance is achieved, or the process is shutdown for corrective measures before commencement of the next production run or within 24 hours, whichever is sooner (except for continuous air pollution monitoring equipment for which the period shall be 96 hours). If the owner or operator elects to shut down rather than come into immediate compliance, (s)he must nonetheless take whatever steps are possible to minimize the impact of the breakdown within the 24 hour period; and

    C. The breakdown does not interfere with the attainment and maintenance of any national ambient air quality standard.

11. An occurrence which constitutes a breakdown condition shall not persist longer than the end of the production run or 24 hours, whichever is sooner (except for continuous air pollution monitoring equipment, for which the period shall be 96 hours), unless an emergency variance has been obtained.

12. If the breakdown condition will either require more than 24 hours to correct or persists longer than the end of the production run (except for continuous air pollution monitoring equipment, for which the period shall be 96 hours) the owner or operator may, in lieu of shutdown, request the SMAQMD Air Pollution Control Officer to commence the emergency variance procedure set forth in SMAQMD Rule No. 602 Section 304.

***NON*-FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL**

13. No emergency variance shall be granted unless the chairperson of the SMAQMD Hearing Board or other designated member(s) of the SMAQMD Hearing Board finds that:

    A. The occurrence constitutes a breakdown condition;

    B. Continued operation is not likely to create an immediate threat or hazard to public health or safety; and

    C. The requirements for a variance set forth in California Health & Safety Code Sections 42352 and 42353 have been met;

    D. The continued operation in a breakdown condition will not interfere with the attainment or maintenance of the national ambient air quality standards.

14. At any time after an emergency variance has been granted, the SMAQMD Air Pollution Control Officer may request for good cause that the SMAQMD Hearing Board chairperson or designated member(s) reconsider and revoke, modify or further condition the variance. The procedures set forth in SMAQMD Rule No. 602 Section 304.1 shall govern any further proceedings conducted under this section.

15. An emergency variance shall remain in effect only for as long as necessary to repair or remedy the breakdown condition, but in no event after a properly noticed hearing to consider an interim or 90 day variance has been held, or 15 days from the date of the subject occurrence, whichever is sooner.

16. Within one week after a breakdown condition has been corrected, the owner or operator shall submit a written report to the SMAQMD Air Pollution Control Officer on forms supplied by the SMAQMD Air Pollution Control Officer describing the causes of the breakdown, corrective measures taken, estimated emissions during the breakdown and a statement that the condition has been corrected, together with the date of correction and proof of compliance. The SMAQMD Air Pollution Control Officer may, at the request of the owner or operator for good cause, extend up to 30 days the deadline for submittal of the report described in this subsection.

17. The burden of proof shall be on the owner or operator of the source to provide sufficient information to demonstrate that a breakdown condition did occur. If the owner or operator fails to provide sufficient information, the SMAQMD Air Pollution Control Officer shall undertake appropriate enforcement action.

18. Any failure to comply, or comply in a timely manner, with the reporting requirements established in SMAQMD Rule No. 602 Sections 301.1 and 401 shall constitute a separate violation of SMAQMD Rule No. 602.

19. It shall constitute a separate violation of SMAQMD Rule No. 602 for any person to file with the SMAQMD Air Pollution Control Officer a report which falsely, or without probable cause, claims that an occurrence is a breakdown condition.

***NON*-FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL**

ARCHITECTURAL COATINGS

20. The permittee shall comply with the requirements of SMAQMD Rule No. 466 Solvent Cleaning when using volatile organic compounds for the cleanup of architectural coating application equipment.
    [SMAQMD Rule No. 466 Sections 301 and 302 (09-25-2008 version)]

FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
GAS TURBINE
DUCT BURNER
APC NOx SCR SYSTEM
APC ROC AND CO OXIDATION CATALYST SYSTEM

A. EQUIPMENT DESCRIPTION

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

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

COMBINED CYCLE POWER BLOCK

Gas Turbine

SMAQMD Rule 201 Permit to Operate No. 14072 (permit number is for reference purposes only - not federally enforceable)

Manufacturer:	Siemens
Model No.:	V84.2
Type:	Combined Cycle
Nominal Rating:	103 MW
Heat Input Rating:	1410 MMBTU/hour
Fuel:	Natural Gas

Duct Burner for Heat Recovery Steam Generator

SMAQMD Rule 201 Permit to Operate No. 14071 (permit number is for reference purposes only - not federally enforceable)

Heat Input Rating:	200 MMBTU/hour
Fuel:	Natural Gas

Air Pollution Control System - NOx

SMAQMD Rule 201 Permit to Operate No. 11458 (permit number is for reference purposes only - not federally enforceable)

Control Device:	Selective Catalytic Reduction
Manufacturer:	Nooter/Eriksen
Venting:	Gas Turbine and Duct Burner

Air Pollution Control System - ROC and CO

SMAQMD Rule 201 Permit to Operate No. 11459 (permit number is for reference purposes only - not federally enforceable)

Control Device:	Oxidation Catalyst
Manufacturer:	Nooter/Eriksen
Venting:	Gas Turbine and Duct Burner

FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
GAS TURBINE
DUCT BURNER
APC NOx SCR SYSTEM
APC ROC AND CO OXIDATION CATALYST SYSTEM

B. APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC: The requirements specified under this section are enforceable by the SMAQMD, U.S. EPA and the public.

EMISSION LIMITATION REQUIREMENTS

1. Concentrations of nitrogen oxides (NOx) emissions from the gas turbine and duct burner shall not exceed the following limit:
[SMAQMD Rule Nos. 201 and 202]

Pollutant	Maximum Allowable NOx Concentration (A) Gas Turbine and Duct Burner ppmv at 15% O2 averaged over any consecutive 3 hour period
NOx	3

(A) Excluding start-ups, shutdowns and short term excursions as defined in Condition Nos. B.8, B.9 and B.10.

2. Mass emissions from the gas turbine and duct burner shall not exceed the following limits:
[SMAQMD Rule Nos. 201 and 202]

Pollutant	Maximum Allowable Emissions (A) Gas Turbine and Duct Burner lb/hour averaged over any consecutive 3 hour period
ROC	9.01 (B)
NOx	17.76 (C)
SO2	0.97 (D)
PM10	7.00 (E)
CO	10.81 (F)

(A) Excluding start-ups, shutdowns and short term excursions as defined in Condition Nos. B.8, B.9 and B.10.
(B) Based on a turbine ROC emission factor of 0.00228 lb/MMBTU, duct burner ROC emission factor of 0.029 lb/MMBTU and firing at full capacity.

FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
GAS TURBINE
DUCT BURNER
APC NOx SCR SYSTEM
APC ROC AND CO OXIDATION CATALYST SYSTEM

(C) Based on data submitted in the permit application and is monitored by the turbine's NOx CEM system.
(D) Based on a turbine and duct burner SO2 emission factor of 0.0006 lb/MMBTU and firing at full capacity.
(E) Based on a turbine PM10 emission factor of 0.003546 lb/MMBTU, duct burner PM10 emission factor of 0.01 lb/MMBTU and firing at full capacity.
(F) Based on data submitted in the permit application and is monitored by the turbine's CO CEM system.

3. Mass emissions from the following equipment at the facility shall not exceed the following limits:
[SMAQMD Rule Nos. 201 and 202]

Pollutant	Maximum Allowable Emissions (A) lb/day		
	Gas Turbine and Duct Burner	Cooling Tower	Total
ROC	146.7	NA	146.7
NOx	384.5	NA	384.5
SO2	21.8	NA	21.8
PM10	142.1	9.7	151.8
CO	326.9	NA	326.9

(A) Including start-ups, shutdowns and short term excursions as defined in Condition Nos. B.8, B.9 and B.10.

4. Combined mass emissions from the following equipment at the facility shall not exceed the following limits:
[SMAQMD Rule Nos. 201 and 202]

Pollutant	Maximum Allowable Emissions (A) Combined Emissions from: Gas Turbine and Duct Burner and Cooling Tower				
	Quarter 1 lb/quarter	Quarter 2 lb/quarter	Quarter 3 lb/quarter	Quarter 4 lb/quarter	Total lb/year

FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
GAS TURBINE
DUCT BURNER
APC NOx SCR SYSTEM
APC ROC AND CO OXIDATION CATALYST SYSTEM

Pollutant	Maximum Allowable Emissions (A) Combined Emissions from: Gas Turbine and Duct Burner and Cooling Tower				
	Quarter 1 lb/quarter	Quarter 2 lb/quarter	Quarter 3 lb/quarter	Quarter 4 lb/quarter	Total lb/year
ROC	8,792	8,898	13,264	8,968	39,922
NOx	24,209	24,545	26,321	24,725	99,800
SOx	1,814	1,836	1,944	1,853	7,447
PM10	11,015	10,160	12,294	11,619	45,088
CO	21,265	21,601	22,803	21,708	87,377

(A) Including start-ups, shutdowns and short term excursions as defined in Condition Nos. B.8, B.9 and B.10.

5. HAP mass emissions from the facility shall not exceed the following limits:
[SMAQMD Rule Nos. 201 and 202]

Equipment	Maximum Allowable HAP Emissions (A) tons/year	
	Single HAP	Combination of HAPs
Total facility	9.4	24.4

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

EQUIPMENT OPERATION REQUIREMENTS

6. The duct burner shall not be operated unless the gas turbine is operating.
[SMAQMD Rule Nos. 201 and 202]

7. The turbine and/or the duct burner shall not be operated without fully functioning selective catalytic reduction and oxidizing catalyst air pollution control systems, excluding periods of start-ups and shutdowns.
[SMAQMD Rule Nos. 201 and 202]

FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
GAS TURBINE
DUCT BURNER
APC NOx SCR SYSTEM
APC ROC AND CO OXIDATION CATALYST SYSTEM

8. The duration of the gas turbine's start-up period shall not exceed 60 minutes.

   A. Gas turbine start-ups are defined as the time periods commencing with the introduction of fuel to the gas turbine and ending at the time that 15-minute average NOx concentrations do not exceed 3 ppmvd at 15% O2, but in no case exceeding 60 consecutive minutes.

   [SMAQMD Rule Nos. 201 and 202]

9. Gas turbine shutdowns are defined as the 30-minute time period immediately preceding the termination of fuel to the gas turbine.
   [SMAQMD Rule Nos. 201 and 202]

10. Gas turbine short-term excursions are defined as 15-minute periods designated by the applicant that are a direct result of a diffusion mode switchover, not to exceed four consecutive 15-minute periods, when the 15-minute average NOx concentration exceeds 3 ppmvd at 15% O2.

    A. Maximum 3-hour average NOx concentration for periods that include short-term excursions shall not exceed 30 ppmvd at 15% O2.

    B. Short-term excursion periods that total in excess of 10 hours per rolling 12-month period shall not be excluded from evaluations for compliance with emission limits in Condition Nos. B.1 and B.2.

    [SMAQMD Rule Nos. 201 and 202]

11. The gas turbine and duct burner shall only combust natural gas fuel.
    [SMAQMD Rule Nos. 201 and 202]

MONITORING REQUIREMENTS

12. The permittee shall operate a continuous emission monitoring system that has been approved by the SMAQMD Air Pollution Control Officer for the gas turbine and duct burner.

    A. The continuous emission monitoring (CEM) system shall monitor and record nitrogen oxides, carbon monoxide and oxygen.

    B. For NOx and O2, the CEM system shall comply with U.S. EPA Performance Specifications in 40 CFR 75 Appendix A.

    C. For CO, the CEM system shall comply with U.S. EPA Performance Specifications in 40 CFR 60 Appendix B Performance Specification 4.

FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
GAS TURBINE
DUCT BURNER
APC NOx SCR SYSTEM
APC ROC AND CO OXIDATION CATALYST SYSTEM

[SMAQMD Rule Nos. 201 and 202]

13. The permittee shall operate a continuous parameter monitoring system that has been approved by the SMAQMD Air Pollution Control Officer that either measures or calculates and records the following:
[SMAQMD Rule Nos. 201 and 202]

Parameter to be Monitored	Units
A. Fuel consumption of the combined cycle gas turbine	MMBTU/hour of natural gas
B. Fuel consumption of the duct burner	MMBTU/hour of natural gas
C. Exhaust gas flow rate of the combined cycle gas turbine and the duct burner.	kscfh or lb/hr

RECORDKEEPING AND REPORTING REQUIREMENTS

14. The following records shall be continuously maintained on site for the most recent five-year period and shall be made available to the SMAQMD Air Pollution Control Officer upon request. Quarterly records as specified in the table below shall be made available for inspection within 30 days of the end of the quarter.
[SMAQMD Rule Nos. 201 and 202 and 40 CFR 60.7]

Frequency	Information to be Recorded
Upon occurrence	A. Record of the occurrence and duration of any start-up, shutdown or short term excursion. i. The number of consecutive 15-minute periods when the 15-minute average NOx concentration exceeded the limits of Condition No. B.1 during each short-term excursion. ii. The qualified condition(s) under which each short-term excursion occurred, pursuant to SMAQMD Rule No. 413 Section 114. iii. The maximum 6-hour average NOx concentration during the period that includes each short-term excursion. iv. The cumulative total, per calendar year, of all 15-minute periods when the 15-minute average NOx concentration exceeded the limits of Condition No. B.1.

FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
GAS TURBINE
DUCT BURNER
APC NOx SCR SYSTEM
APC ROC AND CO OXIDATION CATALYST SYSTEM

Frequency	Information to be Recorded
	B. Malfunction in operation of the gas turbine. C. Measurements from the continuous emission and parameter monitoring systems. D. Monitoring device and performance testing measurements. E. All continuous monitoring system performance evaluations. F. All continuous monitoring system or monitoring device calibration checks. G. All continuous monitoring system adjustments and maintenance.
Hourly	H. Gas turbine natural gas fuel consumption (MMBTU/hr). I. Duct burner natural gas fuel consumption (MMBTU/hr). J. Indicate when each gas turbine start-up occurred. K. NOx emission concentration from the gas turbine and duct burner (ppmvd at 15% O2). L. ROC, NOx, SOx, PM10 and CO hourly emissions (lb/hour) from the gas turbine and duct burner (combined emissions). i. For those pollutants directly monitored (NOx and CO), the hourly emissions will be from the CEM system required pursuant to Condition No. B.12. ii. For those pollutants that are not directly monitored (ROC, SOx and PM10), the hourly emissions shall be calculated based on SMAQMD approved emission factors contained in the footnotes to Condition No. B.2.
Daily	M. ROC, NOx, SOx, PM10 and CO daily mass emissions from all equipment <u>separately</u> and <u>combined</u> at the facility (lb/day): i. gas turbine and duct burner

FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
GAS TURBINE
DUCT BURNER
APC NOx SCR SYSTEM
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Frequency	Information to be Recorded
	(for separate reporting the gas turbine and duct burner emission are combined). ii. cooling tower.
Quarterly	N. ROC, NOx, SOx, PM10 and CO quarterly mass emissions from all equipment <u>combined</u> at the facility (lb/quarter). i. gas turbine and duct burner. ii. cooling tower.

15. Submit to the SMAQMD Air Pollution Control Officer a written report which contains the following information.
[SMAQMD Rule Nos. 201 and 202 and 40 CFR 60.7]

Frequency	Information to be Reported
Quarterly Submitted by: Jan 30 Apr 30 Jul 30 Oct 30 for the previous calendar quarter	A. Whenever the continuous emissions monitoring system is inoperative except for zero and span checks: i. Date and time of non-operation of the continuous emission monitoring system. ii. Nature of the continuous emission monitoring system repairs or adjustments. B. Whenever an emission occurs as measured by the required continuous emissions monitoring system that is in excess of any emission limitation: i. Magnitude of the emission which has been determined to be in excess. ii. Date and time of the commencement and completion of each period of excess emissions. iii. Periods of excess emissions due to startup, shutdown and malfunction shall be specifically identified. iv. The nature and cause of any malfunction (if known).

FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
GAS TURBINE
DUCT BURNER
APC NOx SCR SYSTEM
APC ROC AND CO OXIDATION CATALYST SYSTEM

Frequency	Information to be Reported
	v. The corrective action taken or preventive measures adopted. C. If there are no excess emissions or the continuous monitoring system has not been inoperative, repaired or adjusted for a calendar quarter, a report shall be submitted stating such information.

EMISSION REDUCTION CREDIT (ERC) REQUIREMENTS

16. The permittee shall surrender (and has surrendered - See Condition Nos. 17, 18 and 19) ERCs to the SMAQMD Air Pollution Control Officer to offset the following amount of emissions:
[SMAQMD Rule No. 202]

Equipment - Gas Turbine Duct Burner Cooling Tower	Amount of Emission Offsets for which ERCs are to be Surrendered lb/quarter			
	Quarter 1	Quarter 2	Quarter 3	Quarter 4
ROC	1,292	1,398	5,764	1,468
NOx	24,209	24,545	26,321	24,725
PM10	11,015	10,160	12,294	11,619

17. The following ERCs have been surrendered to the SMAQMD Air Pollution Control Officer to comply with the ROC emission offset requirements as stated in Condition No. 16:
[SMAQMD Rule No. 202]

ERC Certificate No.	Face Value of Emission Reduction Credit Certificates lb/quarter				IPTR (A)	Offset Ratio	Value Applied to ROC Emission Liability lb/quarter			
	Qtr 1	Qtr 2	Qtr 3	Qtr 4			Qtr 1	Qtr 2	Qtr 3	Qtr 4
SMAQMD 00-00652 Swansons	1,550	1,678	6,917	1,762	NA	1.2	1,292	1,398	5,764	1,468

FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
GAS TURBINE
DUCT BURNER
APC NOx SCR SYSTEM
APC ROC AND CO OXIDATION CATALYST SYSTEM

Total ROC Emission Offsets	1,292	1,398	5,764	1,468

(A) IPTR = interpollutant trading ratio

18. The following ERCs have been surrendered to the SMAQMD Air Pollution Control Officer to comply with the NOx emission offset requirements as stated in Condition No. 16: **[SMAQMD Rule No. 202]**

ERC Certificate No.	Face Value of Emission Reduction Credit Certificates lb/quarter				IPTR (A)	Offset Ratio	Value Applied to NOx Emission Liability lb/quarter			
	Qtr 1	Qtr 2	Qtr 3	Qtr 4			Qtr 1	Qtr 2	Qtr 3	Qtr 4
SMAQMD 97-00437 Campbell	23,622	13,491	31,585	20,983	NA	1.2:1	19,685	11,243	26,321	17,486
PCAQMD 98-00002 Formica (ROC)	18,096	53,208	0	28,956	2:1	2:1	4,524	13,302	0	7,239
Total NOx Emission Offsets							24,209	24,545	26,321	24,725

(A) IPTR = interpollutant trading ratio

19. The following ERCs have been surrendered to the SMAQMD Air Pollution Control Officer to comply with the PM10 emission offset requirements as stated in Condition No. 16: **[SMAQMD Rule No. 202]**

Offset Source	Face Value of Emission Reduction credit Certificates lb/quarter				IPTR (A)	Offset Ratio	Value Applied to PM10 Emission Liability lb/quarter			
	Qtr 1	Qtr 2	Qtr 3	Qtr 4			Qtr 1	Qtr 2	Qtr 3	Qtr 4
PCAPCD 99-00003 Sierra Pine	16,523	15,240	18,441	17,429	NA	1.5	11,015	10,160	12,294	11,619

FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
GAS TURBINE
DUCT BURNER
APC NOx SCR SYSTEM
APC ROC AND CO OXIDATION CATALYST SYSTEM

Offset Source	Face Value of Emission Reduction credit Certificates lb/quarter				IPTR (A)	Offset Ratio	Value Applied to PM10 Emission Liability lb/quarter			
	Qtr 1	Qtr 2	Qtr 3	Qtr 4			Qtr 1	Qtr 2	Qtr 3	Qtr 4
Total PM10 Emission Offsets							11,015	10,160	12,294	11,619

(A) IPTR = interpollutant trading ratio

EMISSION TESTING REQUIREMENTS

20. The permittee shall perform an ROC, NOx, PM10 and CO source test and CEM accuracy (RATA) test of the gas turbine and duct burner once each calendar year.

    A. Submit a source test plan to the SMAQMD Air Pollution Control Officer for approval at least 30 days before the source test is to be performed. The source test plan shall indicate that U.S. EPA approved test methods are used for NOx and CO.

    B. Notify the SMAQMD Air Pollution Control Officer at least 7 days prior to the source testing date.

    C. During the source test the gas turbine and duct burner shall be operated at the maximum firing capacity, defined as ≥ 90% of the heat input capacity that is achievable based on ambient conditions at the time of the source test.

    D. Submit the source test results to the SMAQMD Air Pollution Control Officer within 60 days after the completion of the source test(s).

    E. The SMAQMD Air Pollution Control Officer may waive the ROC and PM10 annual source test requirement every other year if the prior annual source test result indicates that the respective hourly emissions are less than or equal to 75% of the respective hourly emission limit.

    [SMAQMD Rule Nos. 201 and 202]

PERMIT SHIELD

21. 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]

FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
GAS TURBINE
DUCT BURNER
APC NOx SCR SYSTEM
APC ROC AND CO OXIDATION CATALYST SYSTEM

Title V Permit Condition No.	Subsumed requirement
B.2	SMAQMD Rule No. 406 - Combustion Contaminants (adopted 12-06-1978)
B.1, B.2, B.8, B.9, B.10, B.11, B.12, B.13, B.14,	SMAQMD Rule No. 413 - Stationary Gas Turbines (adopted 03-24-2005)
B.2, B.11	SMAQMD Rule No. 420 - Sulfur Content of Fuels (adopted 08-13-1981)
B.1, B.2, B.14, B.15	40 CFR 60 Subpart Db - NSPS for Small Industrial - Commercial - Institutional Steam Generating Units (amended 06-13-2007)
B.1, B.2, B.14, B.15	40 CFR 60 Subpart GG - Standards of Performance for Stationary Gas Turbines (amended 02-24-2006)

***NON*-FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC**
GAS TURBINE
DUCT BURNER
APC NOx SCR SYSTEM
APC ROC AND CO OXIDATION CATALYST SYSTEM

C. ***NON*-FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC**

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

EMISSION LIMITATION REQUIREMENTS

22. Concentrations of ammonia (NH3) emissions from the gas turbine and duct burner shall not exceed the following limit.
[SMAQMD Rule No. 402]

Pollutant	Maximum Allowable Ammonia Concentration ppmv at 15% O2 (measured as NH3) averaged over any consecutive 3 hour
Ammonia (NH3)	10

(A) Excluding start-ups, shutdowns and short term excursions as defined in Condition Nos. B.8, B.9 and B.10.

EMISSION TESTING REQUIREMENTS

23. The permittee shall perform an ammonia (NH3) source test of the gas turbine and duct burner once each calendar year.

A. Submit a source test plan to the SMAQMD Air Pollution Control Officer for approval at least 30 days before the source test is to be performed.

B. Notify the SMAQMD Air Pollution Control Officer at least 7 days prior to the source testing date.

C. During the source test the gas turbine and duct burner shall be operated at the maximum firing capacity, defined as $\geq$ 90% of the heat input capacity that is achievable based on ambient conditions at the time of the source test.

D. Submit the source test results to the SMAQMD Air Pollution Control Officer within 60 days after the completion of the source test(s).

[SMAQMD Rule No. 201]

FEDERALLY ENFORCEABLE REQUIREMENTS - TITLE IV ACID RAIN PERMIT
GAS TURBINE
DUCT BURNER
APC NOx SCR SYSTEM
APC ROC AND CO OXIDATION CATALYST SYSTEM

D. ACID RAIN PERMIT

The requirements specified under this subsection are issued in accordance with SMAQMD Rule No. 207 - Title V Federal Operating Permit Program and Title IV and Title V of the federal Clean Air Act, and are enforceable by the SMAQMD, the U.S. EPA and the public.

PERMIT REQUIREMENTS

24. The designated representative of each affected source and each affected unit at the source shall:

    A. Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR Part 72 in accordance with the deadlines specified in 40 CFR 72.30; and

    B. Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit.

    [40 CFR 72.9(a)(1)]

25. The owners and operators of each affected source and each affected unit at the source shall:

    A. Operate the unit 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

26. The owners and operators and, to the extent applicable, 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

FEDERALLY ENFORCEABLE REQUIREMENTS - TITLE IV ACID RAIN PERMIT
GAS TURBINE
DUCT BURNER
APC NOx SCR SYSTEM
APC ROC AND CO OXIDATION CATALYST SYSTEM

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.

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 of 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]

27. 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)]

28. 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

29. 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 the total annual

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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)]

30 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)]

31. An affected unit shall be subject to the requirements under 40 CFR 72.9(c)(1) as follows:

A. Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or

B. Starting on or after January 1, 1995 in accordance with 40 CFR 72.41 and 72.43, an affected unit under 40 CFR 72.6(a)(2) or (3) that is a substitution or compensating unit;

C. Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2) that is not a substitution or compensating unit; or

D. Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR Part 75, an affected unit under 40 CFR 72.6(a)(3) that is not a substitution or compensating unit.
[40 CFR 72.9(c)(3)]

32. 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)]

33. 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)]

34. 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)]

35. 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)]

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NITROGEN OXIDES REQUIREMENTS

36. 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.

EXCESS EMISSIONS REQUIREMENTS

37. The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR Part 77. **[40 CFR 72.9(e)(1)]**

38. The owners and operators of an affected source that has excess emissions in any calendar year shall:

    A. Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR Part 77; and

    B. Comply with the terms of an approved offset plan, as required by 40 CFR Part 77. **[40 CFR 72.9(e)(2)]**

RECORDKEEPING AND REPORTING REQUIREMENTS

39. 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; provided that 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 provided that 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 and other submissions and all records made or required under the Acid Rain Program.

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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.

E. The date that any fuel gas supply source change occurs.
(this requirement is not part of 40 CFR 72.9(f)(1))

F. The date when the fuel type changes between pipeline natural gas and natural gas as described in Condition No. D.27.
(this requirement is not part of 40 CFR 72.9(f)(1))
[40 CFR 72.9(f)(1)]

40. The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR Part 72 Subpart I and 40 CFR Part 75.
[40 CFR 72.9(f)(2)]

LIABILITY REQUIREMENTS

41. 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, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to Section 113(c) of the federal Clean Air Act.
[40 CFR 72.9(g)(1)]

42. 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)]

43. 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)]

44. Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
[40 CFR 72.9(g)(4)]

45. 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)]

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46. 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)]

47. 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

48. No provision of the Acid Rain Program, an 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 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, that 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)]

FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
COOLING TOWER

A. EQUIPMENT DESCRIPTION

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

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

COOLING TOWER

P/O No. 13316	(permit number is for reference purposes only - not federally enforceable)
Manufacturer:	GEA Thermal-Dynamic Towers
Type:	Mechanical draft, counterflow, with drift eliminator
Size:	3 cell
Capacity:	45,000 gallons water/minute, 4,763,000 cfm air flowrate

B. APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC

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

EMISSION LIMITATION REQUIREMENTS

1. Emissions from the cooling tower shall not exceed the following:
   [SMAQMD Rule Nos. 201 and 202]

Pollutant	Maximum Allowable Emissions Cooling Tower lb/hour averaged over any consecutive 3 hour period
PM10	0.41 (A)

(A) Based on a water circulation rate of 45,000 gal/min, cooling tower drift rate of 0.0006%, and a TDS level of 3000 ppmw.

2. Emissions from the following equipment at the facility shall not exceed the following daily emission limits:
   [SMAQMD Rule Nos. 201 and 202]

See Condition No. B.3 for the Gas Turbine and Duct Burner

3. Emissions from the following equipment at the facility shall not exceed the following quarterly emission limits:
   [SMAQMD Rule Nos. 201 and 202]

See Condition No. B.4 for the Gas Turbine and Duct Burner

FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
COOLING TOWER

4. The total dissolved solids content of the circulating cooling water shall not exceed 3000 ppmw, averaged over any consecutive three hour period.
[SMAQMD Rule Nos. 201 and 202]

EQUIPMENT OPERATION REQUIREMENTS

None

MONITORING REQUIREMENTS

5. The permittee shall operate a continuous parameter monitoring system, that has been approved by the SMAQMD Air Pollution Control Officer, that either measures or calculates and records the following.
[SMAQMD Rule Nos. 201 and 202]

Parameter to be Monitored	Units
A. Total dissolved solids content of the circulating water in the cooling tower	ppmw

RECORDKEEPING AND REPORTING REQUIREMENTS

6. The following records shall be continuously maintained on site for the most recent five-year period and shall be made available to the SMAQMD Air Pollution Control Officer upon request. Quarterly records shall be made available for inspection within 30 days of the end of the reporting period.
[SMAQMD Rule Nos. 201 and 202]

Frequency	Information to be Recorded
Hourly	A. Total dissolved solids content of the circulating water in the cooling tower. (ppmw) B. Cooling tower hourly PM10 mass emission rate. (lb PM10/hour) i. The hourly emissions shall be calculated based on the cooling water circulation rate multiplied by the cooling tower drift rate, density of water and the measured TDS level.
Daily	C. Cooling tower PM10 daily mass emissions. (lb/day) D. Total facility PM10 daily mass emissions. (lb/day)
Quarterly	E. Total facility PM10 quarterly mass emissions. (lb/quarter)

FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
COOLING TOWER

EMISSION REDUCTION CREDIT (ERC) REQUIREMENTS

7. The permittee shall surrender (and has surrendered - See Condition No. 8) PM10 ERCs to the SMAQMD Air Pollution Control Officer to offset the following amount of PM10 emissions: **[SMAQMD Rule Nos. 201 and 202]**

See Condition No. B.16 for the Gas Turbine and Duct Burner (PM10 only)

8. The following PM10 ERCs have been surrendered to the SMAQMD Air Pollution Control Officer to comply with the PM10 emission offset requirements as stated in Condition No. 7: **[SMAQMD Rule Nos. 201 and 202]**

See Condition No. B.19 for the Gas Turbine and Duct Burner

PERMIT SHIELD

9. 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
B.1	SMAQMD Rule No. No. 404 - Particulate Matter (adopted 11-20-1984)

***NON*-FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC COOLING TOWER**

C. *NON*-FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
The requirements specified under this section are enforceable by the SMAQMD only.

10. The cooling tower shall not use any chromium containing water treatment chemicals. **[State of California Air Toxic Control Measure for Chromate Treated Cooling Towers (CCR 93103)]**

INSIGNIFICANT EMISSIONS UNITS

The following systems are considered insignificant emissions units and are not subject to equipment specific requirements. However, these units are required to comply with all applicable general requirements.

Equipment Description	Basis for the Exemption
Vehicles	SMAQMD Rule No. 201 Section 111.1 Vehicles used to transport passengers or freight.
Portable pressure washer, 13 hp Portable welder, 16 hp Water treatment backup electrical generator, 18 hp, natural gas fuel	SMAQMD Rule No. 201 Section 112.1 Internal combustion engines with a manufacturer's maximum continuous rating of 50 hp or less.
Air conditioners	SMAQMD Rule No. 201 Section 115 Air conditioning systems not designed to remove air contaminants.
Aqueous ammonia storage tank Compressed gas cylinders (e.g. CO2, H2, calibration gases)	SMAQMD Rule No. 201 Section 117.1 Tanks used for the storage of liquefied or compressed gases.
Lube oil storage tanks Waste lube oil storage tanks Hydraulic oil storage tanks Water/waste oil separator	SMAQMD Rule No. 201 Section 117.2 Tanks used for the storage of unheated organic materials with a vapor pressure ≤ 5 mm Hg (0.1 psia) or initial boiling point ≥ 150 °C (302 °F).
Maintenance shop painting	SMAQMD Rule No. 201 Section 118 Surface coating operations using a combined total of one gallon per day or less of coating material or solvent.

INSIGNIFICANT EMISSIONS UNITS

Equipment Description	Basis for the Exemption
Parts washer and wipe cleaning Natural gas compressor (electric motor drive) Abrasive blasting cabinet Fugitive emissions associated with plant piping systems for fuel gas, fuel oil, lube oil and anhydrous ammonia Water treatment chemical storage tanks Brazing, soldering, welding and cutting torches for plant maintenance activities Adhesive use for plant maintenance activities	SMAQMD Rule No. 201 Section 122 Other equipment which would emit any pollutant, without the benefit of air pollution control devices, at a rate less than 2 pounds in any 24 hour period.

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

BACT
Best Available Control Technology.

CAA
The federal Clean Air Act.

CARB
California Air Resources Board.

CFC
Chloro-fluoro-carbons. A class of compounds responsible for destroying ozone in the upper atmosphere.

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.

ERC
Emission reduction credit.

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.

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

NOx
Nitrogen oxides.

ACRONYMS, ABBREVIATIONS AND UNITS OF MEASURE

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 and SMAQMD Regulation 8.

NSR
New Source Review. A federal program for pre-construction review and permitting of new and modified sources of pollutants for which criteria have been established in accordance with Section 108 of the Federal Clean Air Act. Mandated by Title I of the federal Clean Air Act and implemented by 40 CFR Parts 51 and 52 and SMAQMD Rule No. 202. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

O2
Oxygen.

Offset Requirement
A New Source Review requirement to provide federally enforceable emission offsets for the emissions from a new or modified source. Applies to emissions of ROC, NOx, SO2 and PM10.

PM
Particulate matter.

PM10
Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns.

PSD
Prevention of Significant Deterioration. A federal program for permitting new and modified sources of those air pollutants for which the SMAQMD is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the federal Clean Air Act and implemented by 40 CFR Part 52.

ROC
Reactive organic compounds.

SIP
State Implementation Plan. CARB and SMAQMD 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.

SMAQMD
Sacramento Metropolitan Air Quality Management District.

SO2
Sulfur dioxide.

ACRONYMS, ABBREVIATIONS AND UNITS OF MEASURE

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

TSP
Total suspended particulate.

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
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inch
kg	=	kilogram
max	=	maximum
m2	=	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