

Bay Area Air Quality Management District

939 Ellis Street
San Francisco, CA 94109
(415) 771-6000

Final

MAJOR FACILITY REVIEW PERMIT

Issued To:

**Pacific Gas & Electric Company, Hunters Point Power Plant
Facility #A0024**

Facility Address:

1000 Evans Avenue
San Francisco, CA 94124

Mailing Address:

1000 Evans Avenue
San Francisco, CA 94124

Responsible Official

Randal S. Livingston,
Manager, Steam Generation
(415) 973-6950

Facility Contact

Secondary Responsible Official

Avtar S. Virdee,
Plant Manager - Hunters Point Power Plant
(415) 695-2200

Type of Facility: Electric Generation

Primary SIC: 4911

Product: Electricity

BAAQMD Permit Division Contact:

Weyman Lee

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Ellen Garvey
Ellen Garvey, Executive Officer/Air Pollution Control Officer

September 14, 1998
Date

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I. STANDARD CONDITIONS

A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations:

- BAAQMD Regulation 1 - General Provisions and Definitions
(as amended by the District Board on 11/3/93);
- SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 11/10/82);
- BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 6/7/95);
- SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 6/23/95);
- BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 6/7/95);
- SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through 10/19/84); and
- BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 6/15/94).

B. Conditions to Implement Regulation 2, Rule 6, Major Facility Review

1. This Major Facility Review Permit expires on September 14, 2003. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than March 14, 2003 and no earlier than September 14, 2002. **If a complete application for renewal has not been submitted in accordance with these deadlines, the facility may not operate after September 14, 2003** (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)
4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)

I. Standard Conditions (continued)

5. The filing of a request by the facility for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
6. This permit does not convey any property rights of any sort, nor any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
8. Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)

C. Requirement to Pay Fees

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

D. Inspection and Entry

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment which is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

E. Records

Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of entry. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

I. Standard Conditions (continued)

F. Monitoring Reports

All required monitoring reports must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

Director of Compliance and Enforcement
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109
Attn: Title V Reports

(Regulation 2-6-502, Regulation 3; MOP Volume II, Part 3, §4.7)

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification should be sent to the Environmental Protection Agency at the following address:

Director of the Air Division
U.S. EPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105
Attention: Air-3

(MOP Volume II, Part 3, §4.5 and 4.15)

H. Emergency Provisions

I. Standard Conditions (continued)

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit caused by conditions beyond the permit holder's reasonable control by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. Any variance granted by the Hearing Board from any term or condition of this permit which lasts longer than 90 days will be subject to EPA approval. (MOP Volume II, Part 3, §4.8)
3. Notwithstanding the foregoing, the granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement unless the Major Facility Review Permit has been modified pursuant to Regulation 2, Rule 6. (MOP Volume II, Part 3, §4.8)

I. Severability

1. In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

J. Conditions to Implement Regulation 2, Rule 7, Acid Rain

1. Every year starting January 30, 2000, the permit holder shall hold one sulfur dioxide allowance on January 30 for each ton of sulfur dioxide emitted during the preceding year from January 1 through December 31. (MOP Volume II, Part 3, §4.9)
2. The equipment installed for the continuous monitoring of CO₂ and NO_x shall be maintained and operated in accordance with 40 CFR Parts 72 and 75. (Regulation 2-7, Acid Rain)
3. A written Quality Assurance program must be established in accordance with 40 CFR Part 75, Appendix B for NO_x which includes, but is not limited to: procedures for daily calibration testing, quarterly linearity testing, recordkeeping and reporting implementation, and relative accuracy testing. (Regulation 2-7, Acid Rain)
4. The permit holder shall monitor SO₂ emissions in accordance with 40 CFR Part 72 and 75. (Regulation 2-7, Acid Rain)
5. The permit holder shall submit quarterly Electronic Data Reports (EDR) to EPA for Boilers S-3, S-4, S-5, S-6, and S7. These reports must be submitted within 30 days following the end of each calendar quarter and shall include all information required in § 75.64. (40 CFR Part 75)

I. Standard Conditions (continued)

II. EQUIPMENT LIST

A. Permitted Source List

Each of the following sources has been issued a Permit to Operate pursuant to the requirements of BAAQMD Regulation 2-1-302.

Table II-A

S-#	Description	Make or Type	Model	Capacity
S-1	Gas Turbine Unit No. 1 - Engine "A" with water injection; Distillate Oil Fired	Turbo Power and Marine Systems	FT4C-1D/LF	26 MW
S-2	Gas Turbine Unit No. 1 - Engine "B" with water injection; Distillate Oil Fired	Turbo Power and Marine Systems	FT4C-1D/LF	26 MW
S-3	Boiler No. 3 - Electric Generation; Gas and Oil Fired	Babcock & Wilcox	radiant boiler	670 MMBTU/hr
S-4	Boiler No. 4 - Electric Generation; Gas and Oil Fired	Babcock & Wilcox	radiant boiler	670 MMBTU/hr
S-5	Boiler No. 5 - Electric Generation; Gas and Oil Fired	Babcock & Wilcox	radiant boiler	670 MMBTU/hr
S-6	Boiler No. 6 - Electric Generation; Gas and Oil Fired	Babcock & Wilcox	radiant boiler	670 MMBTU/hr
S-7	Boiler No. 7 - Electric Generation; Gas and Oil Fired	Combustion Engineering	Type R	1,720 MMBTU/hr
S-19	Oil Water Separator	Pacific Industrial Engineering		500 gal/min
S-29	Cold Solvent Degreaser	Safety Kleen	Model 30	20 gallons
S-30	Maintenance Coating Operation	custom design		
S-31	Maintenance Wipe Cleaning			

III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements would not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit.

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s):
 The date(s) of adoption or most recent amendment of the regulation by the District Board
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP:
 The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date
 Where an applicable requirement is a SIP requirement, the full language of the SIP requirement is included in Appendix A of this permit.

NOTE:

There are differences between current BAAQMD rules and versions of the rules in the SIP. For specific information, contact the District's Planning and Research Division. All sources must comply with both versions of a rule until the U.S. EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table III

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (11/3/93)	N
SIP Regulation 1	General Provisions and Definitions (11/10/82)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N

III. Generally Applicable Requirements (continued)

Table III (continued)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (11/2/94)	N
SIP Regulation 5	Open Burning (5/3/84)	Y
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	N
SIP Regulation 6	Particulate Matter and Visible Emissions (5/3/84)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (12/20/95)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (12/20/95)	N
BAAQMD Regulation 9, Rule 1	Sulfur Dioxide	Y
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (12/4/91)	Y
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (9/2/81)	Y
AB 2588	California Assembly Bill 2588 Toxics "Hot Spots"	N
40 CFR Part 61, Subpart M	National Emission Standards Hazardous Air Pollutants, Asbestos	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s).

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s):
 The date(s) of adoption or most recent amendment of the regulation by the District Board
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP:
 The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. Additionally, where an applicable requirement is a SIP requirement, the full language of the SIP requirement is included in Appendix A of this permit. All other text may be found in the regulations themselves.

Table IV-A
S-1 Gas Turbine Unit No. 1-Engine "A"
S-2 Gas Turbine Unit No. 1-Engine "B"

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann No. 1 Limitation	N	
6-305	Visible Particulates	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
SIP Regulation 6	Particulate Matter and Visible Emissions		
6-301	Ringelmann No. 1 Limitation (9/5/79)	Y ¹	

IV. Source-Specific Applicable Requirements (continued)

Table IV-A (continued)
S-1 Gas Turbine Unit No. 1-Engine "A"
S-2 Gas Turbine Unit No. 1-Engine "B"

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	N	
9-1-302	General Emission Limitation	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (5/3/84)		
9-1-301	Limitations on Ground Level Concentrations	Y ¹	
BAAQMD Regulation 9, Rule 9	Inorganic Gaseous Pollutants, Nitrogen Oxides from Stationary Gas Turbines (9/21/94)		
9-9-114	Exemption, Start-up and Shutdown Periods	Y	
9-9-302	Emission Limits, Low Usage	Y	
9-9-502	Records, Low Usage	Y	
BAAQMD Cond #15815			
Part 1	Visible emissions monitoring	Y	
Part 2	Recordkeeping for visible emissions monitoring	Y	
Part 3	Water injection	Y	
Part 4	Fuel specification	Y	
Part 5	Hours of operation limitation	Y	
Part 6	Recordkeeping	Y	

¹ This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

IV. Source-Specific Applicable Requirements (continued)

Table IV-B
S-3, Electric Generation Boiler No. 3
S-4, Electric Generation Boiler No. 4
S-5, Electric Generation Boiler No. 5
S-6, Electric Generation Boiler No. 6

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/3/93)		
1-520	Continuous Emission Monitoring	Y	
1-520.1	Steam Generators Rated 250 MMBTU or More Per Hour	Y	
1-522	Continuous Emission Monitoring and Record Keeping Procedures	Y	
1-522.1	Plans and Specifications	Y	
1-522.2	Installation Scheduling	Y	
1-522.3	Performance Testing	Y	
1-522.4	Periods of Inoperation Greater Than 24 Hours	Y	
1-522.5	Calibration	Y	
1-522.6	Accuracy	Y	
1-522.7	Excesses	Y	
1-522.8	Monthly Reports	Y	
1-522.9	Records	Y	
1-522.10	Monitors Required by Sections 1-521 or 2-1-403	Y	
SIP Regulation 1	General Provisions and Definitions (11/10/82)		
1-522	Continuous Emission Monitoring and Record Keeping Procedures	Y ¹	
1-541	Emission Excesses	Y ¹	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitation	N	
6-302	Opacity Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particulates	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Particulate Weight Limitation, Heat Transfer Operation	Y	

IV. Source-Specific Applicable Requirements (continued)

Table IV-B (continued)
S-3, Electric Generation Boiler No. 3
S-4, Electric Generation Boiler No. 4
S-5, Electric Generation Boiler No. 5
S-6, Electric Generation Boiler No. 6

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-401	Appearance of Emissions	Y	
6-501	Sampling Facilities and Instruments Required	Y	
6-502	Data, Records and Reporting	Y	
SIP Regulation 6	Particulate Matter and Visible Emissions		
6-301	Ringelmann No. 1 Limitation (9/5/79)	Y ¹	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	N	
9-1-302	General Emission Limitation	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (5/3/84)		
9-1-301	Limitations on Ground Level Concentrations	Y ¹	
BAAQMD Regulation 9, Rule 11	Inorganic Gaseous Pollutants, Nitrogen Oxides and Carbon Monoxide From Utility Electric Power Generating Boilers (11/15/95)		
9-11-111	Exemption, Startup or Shutdown	Y	
9-11-112	Exemption, Oil Testing	Y	
9-11-113	Exemption, Limited Capacity Factor	N	
9-11-306	Interim Compliance NOx Emission Limits for Boilers with a Rated Heat Input Capacity Less Than 1.5 Billion BTU/hour	Y	
9-11-307	Interim Compliance NOx Emission Limits for Boilers with a Rated Heat Input Capacity Less Than 1.5 Billion BTU/hour	N	12/31/00
9-11-308	System-wide NOx Emission Rate Limit	Y	
9-11-309	Advanced Technology Alternative Emission Control Plan	N	
9-11-309.1	System-wide NOx Emission Rate Limits: 0.160 lb/MMBTU	N	
9-11-309.1	System-wide NOx Emission Rate Limits: 0.115 lb/MMBTU	N	1/1/99
9-11-309.1	System-wide NOx Emission Rate Limits: 0.105 lb/MMBTU	N	1/1/00

IV. Source-Specific Applicable Requirements (continued)

Table IV-B (continued)
S-3, Electric Generation Boiler No. 3
S-4, Electric Generation Boiler No. 4
S-5, Electric Generation Boiler No. 5
S-6, Electric Generation Boiler No. 6

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-11-309.1	System-wide NOx Emission Rate Limits: 0.057 lb/MMBTU	N	1/1/02
9-11-309.1	System-wide NOx Emission Rate Limits: 0.037 lb/MMBTU	N	1/1/04
9-11-309.1	System-wide NOx Emission Rate Limits: 0.018 lb/MMBTU	N	1/1/06
9-11-309.2	Boilers in Startup or Shutdown; Boilers Taken Out of Service; Boilers on Force Majeure Natural Gas Curtailment; and Oil Testing	N	
9-11-310	CO Emission Limits for Boilers with a Rated Heat Input Capacity Greater Than or Equal to 250 million BTU/hour	Y	
9-11-311	Ammonia Emission Limit for Boilers with a Rated Heat Input Capacity Greater Than or Equal to 250 million BTU/hour	Y	Upon installment of an applicable control device
9-11-401	Compliance Schedule - Emissions Limits	Y	
9-11-402	Initial and Annual Demonstration of Compliance	N	
9-11-501	Fuels Monitoring	Y	
9-11-502	Modified Maximum Heat Input Capacity	Y	Upon physical modification affecting max. heat input
9-11-503	Emissions Monitoring	Y	
9-11-504	Records	Y	
9-11-505	Reporting Requirements	Y	
BAAQMD Regulation 11, Rule 1	Hazardous Pollutants, Lead (3/17/82)		
11-1-301	Daily Limitation	Y	
11-1-302	Ground level Concentration Limit Without Background	Y	

IV. Source-Specific Applicable Requirements (continued)

Table IV-B (continued)
S-3, Electric Generation Boiler No. 3
S-4, Electric Generation Boiler No. 4
S-5, Electric Generation Boiler No. 5
S-6, Electric Generation Boiler No. 6

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
40 CFR Part 72	Title IV – Acid Rain Program	Y	
40 CFR Part 75	Code of Federal Regulations, Continuous Emissions Monitoring	Y	
BAAQMD Condition #16329	Permit Conditions		
Condition 1	Applicability of “electric power generating system” and “systemwide NOx emission rate” (Basis: CEQA)	N	
Condition 2	Limitation on Non-gaseous Fuel Firing (Basis: CEQA)	N	
Condition 3	Systemwide NOx Emission Rate Limit of 0.188 lb/MMBTU (Basis: CEQA)	N	
Condition 3	Systemwide NOx Emission Rate Limit of 0.160 lb/MMBTU (Basis: CEQA)	N	
Condition 3	Systemwide NOx Emission Rate Limit of 0.115 lb/MMBTU (Basis: CEQA)	N	
Condition 3	Systemwide NOx Emission Rate Limit of 0.105 lb/MMBTU (Basis: CEQA)	N	1/1/2000
Condition 3	Systemwide NOx Emission Rate Limit of 0.057 lb/MMBTU (Basis: CEQA)	N	1/1/2002
Condition 3	Systemwide NOx Emission Rate Limit of 0.037 lb/MMBTU (Basis: CEQA)	N	1/1/2004
Condition 3	Systemwide NOx Emission Rate Limit of 0.018 lb/MMBTU (Basis: CEQA)	N	1/1/2005
Condition 4	Limited Capacity Factor Exemption (Basis: CEQA)	N	
Condition 5	NOx Emission Limits for Boilers that Qualify for the Limited Capacity Factor Exemption (Basis: CEQA)	N	

IV. Source-Specific Applicable Requirements (continued)

Table IV-B (continued)
S-3, Electric Generation Boiler No. 3
S-4, Electric Generation Boiler No. 4
S-5, Electric Generation Boiler No. 5
S-6, Electric Generation Boiler No. 6

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition 6	Boilers in Startup or Shutdown, Taken out of Service, on Force Majeure Natural Gas Curtailment, and Oil Testing (Basis: CEQA)	N	
Condition 7	CO Emission Limits (Basis: CEQA)	N	
Condition 8	Ammonia Emission Limits (Basis: CEQA)	N	
Condition 9	Startup Provision (Basis: CEQA)	N	
Condition 10	Shutdown Provision (Basis: CEQA)	N	
Condition 11	Continuous Emission Monitoring Systems (CEMS) Requirements (Basis: CEQA)	N	
Condition 12	Fuel Meter Requirements (Basis: CEQA)	N	
Condition 13	Ammonia Emission Limit (Basis: CEQA)	N	
Condition 14	Recordkeeping Requirements (Basis: CEQA)	N	

Table IV-C
S-7, Electric Generation Boiler No. 7

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/3/93)		
1-520	Continuous Emission Monitoring	Y	
1-520.1	Steam Generators Rated 250 MMBTU or More Per Hour	Y	
1-522	Continuous Emission Monitoring and Record Keeping Procedures	Y	
1-522.1	Plans and Specifications	Y	
1-522.2	Installation Scheduling	Y	
1-522.3	Performance Testing	Y	
1-522.4	Periods of Inoperation Greater Than 24 Hours	Y	

IV. Source-Specific Applicable Requirements (continued)

1-522.5	Calibration	Y	
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Table IV-C (continued)
S-7, Electric Generation Boiler No. 7

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-522.6	Accuracy	Y	
1-522.7	Excesses	Y	
1-522.8	Monthly Reports	Y	
1-522.9	Records	Y	
1-522.10	Monitors Required by Sections 1-521 or 2-1-403	Y	
SIP Regulation 1	General Provisions and Definitions (11/10/82)		
1-541	Emission Excesses	Y ¹	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann No. 1 Limitation	N	
6-302	Opacity Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particulates	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Particulate Weight Limitation, Heat Transfer Operation	Y	
6-401	Appearance of Emissions	Y	
6-501	Sampling Facilities and Instruments Required	Y	
6-502	Data, Records and Reporting	Y	
SIP Regulation 6	Particulate Matter and Visible Emissions		
6-301	Ringelmann Number 1 Limitation (9/5/79)	Y ¹	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	N	
9-1-302	General Emission Limitation	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (5/3/84)		

IV. Source-Specific Applicable Requirements (continued)

**Table IV-C (continued)
 S-7, Electric Generation Boiler No. 7**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-301	Limitations on Ground Level Concentrations	Y ¹	
BAAQMD Regulation 9, Rule 11	Inorganic Gaseous Pollutants, Nitrogen Oxides and Carbon Monoxide From Utility Electric Power Generating Boilers (11/15/95)		
9-11-111	Exemption, Startup or Shutdown	Y	
9-11-112	Exemption, Oil Testing	Y	
9-11-304	Interim Compliance NOx Emission Limits for Boilers with a Rated Heat Input Capacity Less Than 1.75 Billion BTU/hour and Greater Than or Equal to 1.5 billion BTU/hour	Y	
9-11-304.1	NOX limits	Y	
9-11-304.2	Limitation on Non-Gaseous Fuel Firing	Y	
9-11-308	System-wide NOx Emission Rate Limit	Y	
9-11-309	Advanced Technology Alternative Emission Control Plan	N	
9-11-309.1	System-wide NOx Emission Rate Limits: 0.160 lb/MMBTU	N	
9-11-309.1	System-wide NOx Emission Rate Limits: 0.115 lb/MMBTU	N	1/1/99
9-11-309.1	System-wide NOx Emission Rate Limits: 0.105 lb/MMBTU	N	1/1/00
9-11-309.1	System-wide NOx Emission Rate Limits: 0.057 lb/MMBTU	N	1/1/02
9-11-309.1	System-wide NOx Emission Rate Limits: 0.037 lb/MMBTU	N	1/1/04
9-11-309.1	System-wide NOx Emission Rate Limits: 0.018 lb/MMBTU	N	1/1/06
9-11-309.2	Boilers in Startup or Shutdown; Boilers Taken Out of Service; Boilers on Force Majeure Natural Gas Curtailment; and Oil Testing	N	
9-11-310	CO Emission Limits for Boilers with a Rated Heat Input Capacity Greater Than or Equal to 250 million BTU/hour	Y	
9-11-311	Ammonia Emission Limit for Boilers with a Rated Heat Input Capacity Greater Than or Equal to 250 million BTU/hour	Y	Upon installment of an applicable control device
9-11-401	Compliance Schedule - Emissions Limits	Y	
9-11-402	Initial and Annual Demonstration of Compliance	Y	
9-11-501	Fuels Monitoring	Y	

IV. Source-Specific Applicable Requirements (continued)

**Table IV-C (continued)
 S-7, Electric Generation Boiler No. 7**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-11-502	Modified Maximum Heat Input Capacity	Y	Upon physical modification affecting max. heat input
9-11-503	Emissions Monitoring	Y	
9-11-504	Records	Y	
9-11-505	Reporting Requirements	Y	
BAAQMD Regulation 11, Rule 1	Hazardous Pollutants, Lead (3/17/82)		
11-1-301	Daily Limitation	Y	
11-1-302	Ground level Concentration Limit Without Background	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
40 CFR Part 72	Title IV – Acid Rain Program	Y	
40 CFR Part 75	Code of Federal Regulations, Continuous Emissions Monitoring	Y	
BAAQMD Condition #16329	Permit Conditions		
Condition 1	Applicability of “electric power generating system” and “systemwide NOx emission rate” (Basis: CEQA)	N	
Condition 2	Limitation on Non-gaseous Fuel Firing (Basis: CEQA)	N	
Condition 3	Systemwide NOx Emission Rate Limit of 0.188 lb/MMBTU (Basis: CEQA)	N	
Condition 3	Systemwide NOx Emission Rate Limit of 0.160 lb/MMBTU (Basis: CEQA)	N	
Condition 3	Systemwide NOx Emission Rate Limit of 0.115 lb/MMBTU (Basis: CEQA)	N	

IV. Source-Specific Applicable Requirements (continued)

**Table IV-C (continued)
 S-7, Electric Generation Boiler No. 7**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition 3	Systemwide NOx Emission Rate Limit of 0.105 lb/MMBTU (Basis: CEQA)	N	1/1/2000
Condition 3	Systemwide NOx Emission Rate Limit of 0.057 lb/MMBTU (Basis: CEQA)	N	1/1/2002
Condition 3	Systemwide NOx Emission Rate Limit of 0.037 lb/MMBTU (Basis: CEQA)	N	1/1/2004
Condition 3	Systemwide NOx Emission Rate Limit of 0.018 lb/MMBTU (Basis: CEQA)	N	1/1/2005
Condition 6	Boilers in Startup or Shutdown, Taken out of Service, on Force Majeure Natural Gas Curtailment, and Oil Testing (Basis: CEQA)	N	
Condition 7	CO Emission Limits (Basis: CEQA)	N	
Condition 8	Ammonia Emission Limits (Basis: CEQA)	N	
Condition 9	Startup Provision (Basis: CEQA)	N	
Condition 10	Shutdown Provision (Basis: CEQA)	N	
Condition 11	Continuous Emission Monitoring Systems (CEMS) Requirements (Basis: CEQA)	N	
Condition 12	Fuel Meter Requirements (Basis: CEQA)	N	
Condition 13	Ammonia Emission Limit (Basis: CEQA)	N	
Condition 14	Recordkeeping Requirements (Basis: CEQA)	N	

¹ This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until U.S. EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

IV. Source-Specific Applicable Requirements (continued)

**Table IV-D
 S-19, Oil Water Separator**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 8	Organic Compounds, Wastewater (Oil-Water) Separator (6/15/94)		
8-8-112	Exemption, Waste Water Critical Organic Compound Concentration and/or Temperature	Y	
8-8-113	Exemption, Secondary Waste Water Treatment Processes and Stormwater Sewer Systems	Y	
8-8-303	Gauging and Sampling Devices	Y	
8-8-305	Oil-Water Separator and/or Air Flotation Unit Slop Oil Vessels	Y	
8-8-501	API Separator or Air Flotation Bypassed Waste Water Records	Y	
8-8-502	Waste Water Critical Organic Compound Concentration and/or Temperature Records	Y	
8-8-503	Inspection and Repair Records	Y	

**Table IV-E
 S-29, Cold Solvent degreaser**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 16	Organic Compounds - Solvent Cleaning Operations		
8-16-303	Cold Cleaner Requirements	Y	
8-16-304	Trichloroethylene Limitation	Y	
8-16-501	Solvent Records	Y	
8-16-501.1	Trichloroethylene	Y	
8-16-501.2	All Other Solvents	Y	

IV. Source-Specific Applicable Requirements (continued)

**Table IV-F
 S-30, Maintenance Coating Operation**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 3	Organic Compounds, Architectural Coatings (12/20/95)		
8-3-302	Final Limits	Y	
8-3-304	Specialty Coating Limitations	Y	
8-3-306	Exempt Coating Labeling	Y	
8-3-401	Date of Manufacture	Y	
8-3-403	Labeling Requirement	Y	
BAAQMD Regulation 8, Rule 19	Organic Compounds - Surface Coating of Miscellaneous Metal Parts and Products (12/20/95)		
8-19-110	Exemption - Low Usage Coatings	Y	
8-19-112	Exemption - Touch Up	Y	
8-19-113	Exemption - Specific Operations	Y	
8-19-117	Exemption - Stencil Coating	Y	
8-19-133	Exemption - Spray Application Equipment	Y	
8-19-136	Limited Exemption - Specialty Coatings	Y	
8-19-302	VOC Limits	Y	
8-19-307	Prohibition of Specification	Y	
8-19-312	Specialty Coating Limitations	Y	
8-19-313	Spray Application Equipment Limitations	Y	
8-19-320	Solvent Evaporative Loss Minimization	Y	
8-19-405	Low Usage Coating Petition	Y	
8-19-407	Specialty Coating Petition	Y	
8-19-501	Records	Y	
BAAQMD Condition #8936	Permit Conditions		
Condition 1	Coating Usage Limit (basis: cumulative increase)	Y	
Condition 2	General Solvent Limit (basis: cumulative increase)	Y	
Condition 3	Record Keeping Requirements (basis: BAAQMD Regulation 8-19-501)	Y	

IV. Source-Specific Applicable Requirements (continued)

**Table IV-G
S-31, Maintenance Wipe Cleaning**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 16	Organic Compounds, Solvent Cleaning Operations (6/15/94)		
BAAQMD 8-16-111	Exemption, Wipe Cleaning	Y	
BAAQMD 8-16-304	Trichloroethylene Limitation	Y	
BAAQMD 8-16-501	Solvent Records	Y	
BAAQMD Condition #8937	Permit Conditions		
Condition 1	General Solvent Usage Limit (basis: cumulative increase)	Y	
Condition 2	Trichloroethane usage Limit (basis: cumulative increase)	Y	
Condition 3	Record Keeping Requirements (basis: BAAQMD Regulation 8-16-501)	Y	

V. SCHEDULE OF COMPLIANCE

The permit holder shall continue to comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit.

VI. PERMIT CONDITIONS

Any condition that is preceded by an asterisk is not federally enforceable.

A. Source Specific Permit Conditions

Condition #8936

For S-30 [Maintenance Coating Operation]

1. Net annual coating usage at this source shall not exceed 1200 gallons in any consecutive 12 month period. [basis: cumulative increase]
2. Net annual solvent usage at this source shall not exceed 150 gallons in any consecutive 12 month period. [basis: cumulative increase]
3. The operator shall maintain a log of all materials used in this operation. The log shall contain the following information: [basis: Regulation 8-19-501]
 - a) quantities of each type of coating used with components and mix ratios listed if applicable,
 - b) substrate that each coating is applied to and the District Regulation that applies,
 - c) VOC content of each coating,
 - d) if a cleaning solvent is used log type and amount.

These records shall be kept on a daily basis on a District-approved log. These records shall be summarized on a monthly basis.

All records shall be retained for a period of five (5) years from the date of entry, and be made available to District Staff on request.

VI. Permit conditions (continued)

Condition #8937

For S-31 [Wipe Cleaning Operation]

1. Net annual solvent usage at this source shall not exceed 100 gallons in any consecutive 12-month period. [basis: cumulative increase]
- 2.* Net annual 1,1,1-Trichloroethane usage at this source shall not exceed 20 gallons in any consecutive 12-month period. [basis: cumulative increase]
3. The operator shall maintain a log of all materials used in this operation. The log shall contain the following information: [basis: Regulation 8-16-501]
 - a. Quantities of each type of solvent used at this source
 - b. Quantities of each type of solvent recovered for disposal or recycling
 - c. Net usage of each type of solvent

These records shall be kept on a monthly basis on a District-approved log. These records shall be summarized on a quarterly basis.

All records shall be retained for a period of five (5) years from the date of entry, and be made available to District Staff on request.

Condition #15815

For S-1 and S-2 [Gas Turbines]

Permit Conditions for Hunters Point, A0024

1. For each emission point at S-1 and S-2 Gas Turbine, the owner/operator shall follow either a) or b), as appropriate, upon receipt of public complaint, upon obvious emissions, but no less than once each day when operated. The daily inspection shall be conducted while the equipment is operating and during daylight hours. [basis: District Regulations 6-301, 6-302, 2-6-501]
 - a) If three (3) or fewer exceedances have been recorded at any emission point within the last six (6) months, conduct an inspection for visible emissions from that emission point. If any visible emissions, excluding condensed water vapor, are detected during an inspection and the emissions are observed continuously or intermittently for three (3) minutes, the owner/operator shall either:

VI. Permit conditions (continued)

Condition #15815

For S-1 and S-2 [Gas Turbines]

- (i) Take corrective actions that eliminate the visible emissions and report the visible emission as a potential exceedance. If all visible emissions are not eliminated through corrective actions as soon as possible but no later than within 24 hours, the procedure in paragraph (ii) below shall be followed; or
 - (ii) Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures outlined in the CARB manual, "Visible Emissions Evaluation" for six (6) minutes within three (3) days and record the results of the reading. The certified smoke-reader shall continue to conduct the Method 9 or CARB Visible Emission Evaluation on a daily basis until the daily reading shows compliance with the applicable limit or until the equipment is shut down.
 - b. If more than three (3) exceedances have been recorded at any emission point within the last six (6) months, a CARB-certified smoke reader shall conduct either an EPA Method 9 or the procedures outlined in the CARB manual, "Visible Emissions Evaluation" for six (6) minutes at that emission point.
2. For each unit covered by permit condition no. 1 above, the owner/operator shall record and maintain the following records: [basis: District Regulation 2-6-501]
 - a) each day monitoring under 1(a) or 1(b) is required:
 - i) date and time of inspection, and name of inspector
 - ii) stack or emission point identification
 - b) each day for each emission point where corrective action is required under 1(a)(I):
 - i) nature of visible emissions
 - ii) description of corrective actions taken to abate visible emissions
 - iii) date and time visible emission was abated
 - c) each day for each emission point where EPA Method 9 or CARB visible emission evaluation is required under (1)(b) or (1)(a)(ii):
 - i) visible emission observation record by a certified smoke reader
 - ii) name of person performing the inspection, measurement, or monitoring

VI. Permit conditions (continued)

Condition #15815

For S-1 and S-2 [Gas Turbines]

The records shall be retained for five (5) years and shall be made available to District personnel upon request.

3. S-1 and S-2 Turbines shall be abated at all times of operation by a properly operated and properly maintained water injection system. The weight ratio of water to fuel shall not be less than 0.55 during normal operation. [basis: District Regulation 9-9-302]
4. S-1 and S-2 Turbines shall be fired exclusively on No. 2 distillate oil or lighter fuel oil with a sulfur content less than 0.5% sulfur by weight. [basis: District Regulation 9-304]
5. S-1 and S-2 Turbines shall be operated less than 877 hours each in any calendar year unless the emissions requirements of District Regulation 9-9-301 are met. [basis: District Regulations 6-310; 9-9-301, 302]
6. In order to demonstrate compliance with the above permit conditions numbers 3, 4, and 5, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least five (5) years from the date on which a record is made. [basis: District Regulation 2-6-501]
 - a. The water to fuel weight ratio for each turbine on a daily basis when operating.
 - b. The type of fuel and sulfur content of the fuel fired.
 - c. The total number of hours of operation, totaled on a monthly basis.

VI. Permit conditions (continued)

Condition #16329

For S-3, S-4, S-5, S-6, S-7 [Boilers]

[Basis for Condition Nos. 1 through 14: Originally derived from District Regulation 9, Rule 11, and subsequently extended under authority of CEQA Mitigation Measure 4.5-5, Final EIR, as certified by the CEQA Lead Agency, CPUC Commissioners Decision 98-11-064, Nov. 19, 1998.]

[Any ambiguities in these conditions should generally be interpreted in a manner consistent with Regulation 9, Rule 11 unless the context indicates otherwise. These conditions shall be rescinded by the District upon amendment of Regulation 9, Rule 11 to expressly apply to all owners and operators of electric power generating steam boilers with a rated heat input capacity of 250 million BTU/hour or greater.]

Any condition that is preceded by an asterisk (*) is not federally enforceable.

- 1.* For the purposes of this permit, the term “electric power generating system” shall refer to the combined total of all steam boilers, each with a rated heat input capacity greater than or equal to 250 million BTU/hour, used for electric power generation in the District, that are owned and/or operated by person or persons under common ownership or contractual obligation. The term “systemwide NO_x emission rate” shall refer to the ratio of the total mass of discharge of nitrogen oxides in pounds from all such affected steam boilers of the electric power generating system of which they are a part, to the sum of the actual heat input to those boilers in million BTU, calculated on a clock-hour basis. Condition Nos. 1 through 14 shall continue to apply regardless of any change in ownership or composition of the electric power generating system or other occurrence that removes or may remove the owner or operator of the affected boilers from the jurisdiction of the CPUC. [Basis: CEQA]
- 2.* Boilers S-3, S-4, S-5, S-6, and S-7 shall burn only natural gas unless the gaseous fuel is not available because of a force majeure natural gas curtailment.

VI. Permit conditions (continued)

Condition #16329

For S-3, S-4, S-5, S-6, S-7 [Boilers]

For the purposes of this permit, force majeure natural gas curtailment is defined as an interruption in natural gas service, such that the daily fuel needs of a boiler cannot be met with natural gas available, due to one of the following reasons:

- a. An unforeseeable failure or malfunction, not resulting from an intentional act or omission that the California Public Utilities Commission (CPUC) or the Independent System Operator (ISO) finds to be due to an act of gross negligence on the part of the owner or operator of the boiler; or
- b. A natural disaster; or
- c. The natural gas is curtailed pursuant to CPUC rules or orders; or
- d. The serving natural gas utility provides notice to the District that, with forecasted natural gas supplies and demands, natural gas service is expected to be curtailed pursuant to CPUC or ISO rules or orders.

[Basis: CEQA]

- 3.* Boilers S-3, S-4, S-5, S-6, S-7, and all other electric generating steam boilers in the electric power generating system of which they are a part, are subject to the following systemwide nitrogen oxides (NOx) emission rate limits, expressed as pounds of NOx per million BTU of heat input, calculated on a clock-hour basis, excluding boilers on force majeure natural gas curtailment. These limits become effective on January 1 of the year specified:

1997:	0.188	lb/MMBTU	
1998:	0.160	lb/MMBTU	
1999:	0.115	lb/MMBTU	
2000:	0.105	lb/MMBTU	
2002:	0.057	lb/MMBTU	
2004:	0.037	lb/MMBTU	
2005:	0.018	lb/MMBTU	[Basis: CEQA]

- 4.* The systemwide NOx emission rate limits specified in Condition No. 3 shall not apply to any affected boiler with a rated heat input capacity less than 1.5 billion BTU/hour that operates with a capacity factor of less than two (2) percent between

VI. Permit conditions (continued)

May 1 and October 31 in any one year, and below four (4) percent in any calendar year, or if the boiler is required to operate in excess of

Condition #16329

For S-3, S-4, S-5, S-6, S-7 [Boilers]

these capacity factor limits due to an electric system emergency as defined below. For boilers that have refractory lined furnace hoppers, as defined in Section 217 of Regulation 9, Rule 11, the capacity factor limits shall apply to the aggregate average of the heat input weighted capacity factors of these boilers. Boilers qualifying for this limited exemption shall not be included in the systemwide NOx emission rate calculation for the purpose of determining compliance with Condition No. 3.

For the purposes of this permit, an electric system emergency is defined as that period when an electric power generating system is required to request or provide emergency electrical support, as defined in Item 6 of the Coordinated Bulk Power Supply Program, Western Systems Coordinating Council (April 1, 1992). This definition is limited to those situations in which the specified procedures for requesting emergency relief have been followed, including a determination by the Independent System Operator (ISO) that normal arrangements for capacity and energy are not sufficient to avoid brownouts or blackouts. [Basis: CEQA]

- 5.* Boilers that qualify for the limited exemption of Condition No. 4 shall meet the following conditions and emission limits:
- a. Gaseous Fuel: For gaseous fuel firing, NOx emissions shall not exceed 175 ppmv, dry at 3 percent oxygen, based on a clock hour average.;
 - b. Non-Gaseous Fuel: For non-gaseous fuel firing, NOx emissions shall not exceed 500 ppmv, dry at 3 percent oxygen, clock hour average;
 - c. Gaseous and Non-Gaseous Fuel: For simultaneous gaseous and non-gaseous fuel firing, the heat input weighted average of the emission limits specified in subsections 5a and 5b shall not be exceeded; and
 - d. Limitation on Non-Gaseous Fuel Firing: A person shall not fire an electric power generating steam boiler with a non-gaseous fuel unless gaseous fuel is not available because of a force majeure natural gas curtailment as defined in Condition No. 2 and there exists an electric system emergency as defined in Condition No. 4.
[Basis: CEQA]

VI. Permit conditions (continued)

VI. Permit conditions (continued)

Condition #16329

For S-3, S-4, S-5, S-6, S-7 [Boilers]

6.* When an affected boiler is in startup or shutdown; taken out of service for repairs, maintenance, and/or inspection; on force majeure natural gas curtailment; or being fired for oil-burn readiness testing, CPUC- or ISO-required performance testing, or oil-burn emission testing required by the APCO; or if NO_x or heat input information is unavailable due to equipment breakdown, scheduled maintenance or calibration; the boiler's contribution for the purpose of determining compliance with the applicable systemwide NO_x emission rate in Condition No. 3 shall be taken as the average NO_x emissions at the average heat input of that unit over the previous thirty (30) operating days on natural gas, subject to the limitations specified in subsection 309.2 of Regulation 9, Rule 11. [Basis: CEQA]

7.* Emissions of CO from each of the Boilers S-3, S-4, S-5, S-6, and S-7, except during startup or shutdown periods, shall not exceed the following limits:

400 ppmv, dry at 3 percent oxygen, during steady state compliance source tests, using District Source Test Method 6.

1000 ppmv, dry at 3 percent oxygen, during all other periods of operation (CEMS compliance monitoring), based on a clock hour average. [Basis: CEQA]

8.* Emissions of ammonia from each of the Boilers S-3, S-4, S-5, S-6, and S-7, except during startup or shutdown periods, shall not exceed 10 ppmv, dry at 3 percent oxygen, based on a rolling 60-minute average. [Basis: CEQA]

9.* For the purposes of compliance with the emission limits in Condition Nos. 3, 5, 6, 7, and 8, the duration of each startup period for each boiler shall not exceed twelve (12) hours unless catalytic reaction temperature has not been reached, if applicable.

Startup is that period of time during which a boiler is brought up to its normal operating temperature and pressure from an inactive status, initially at zero fuel flow, by following a prescribed series of separate steps or operations. [Basis: CEQA]

Condition #16329

VI. Permit conditions (continued)

For S-3, S-4, S-5, S-6, S-7 [Boilers]

- 10.* For the purposes of compliance with the emission limits in Condition Nos. 3, 5, 6, 7, and 8, the duration of each shutdown period for each boiler shall not exceed eight (8) hours.

Shutdown is that period of time during which a boiler is taken out of service from a normal operating mode to an inactive status of no fires by following a prescribed series of separate steps or operations. [Basis: CEQA]

- 11.* To demonstrate compliance with the NO_x and CO emission limits in Condition Nos. 3, 5, and 7, the owner and/or operator of Boilers S-3, S-4, S-5, S-6, and S-7 shall install, maintain, and operate District approved, in-stack, continuous emission monitoring systems (CEMS) for NO_x, CO, and O₂ or CO₂ (in lieu of O₂) for each of the affected boilers. [Basis: CEQA]

- 12.* To demonstrate compliance with the systemwide NO_x emission limits in Condition No. 3, the owner and/or operator of S-3, S-4, S-5, S-6, and S-7 shall install, maintain, and operate a District approved, non-resettable, totalizing and continuous recording fuel meter in each fuel line of each boiler. [Basis: CEQA]

- 13.* To demonstrate compliance with the ammonia emission limit in Condition No 8, the owner and/or operator of Boilers S-3, S-4, S-5, S-6, and S-7 shall conduct District approved source tests at least once quarterly for each affected boiler that operated during the calendar quarter and is equipped with an ammonia-based NO_x emission control device. [Basis: CEQA]

- 14.* In order to demonstrate compliance with all of the above conditions, the owner and/or operator of Boilers S-3, S-4, S-5, S-6, and S-7 shall maintain all necessary fuels, emissions, and operational data records in a District approved log kept on site and made available for District staff inspection upon request. The records shall be kept for a period of at least five years from the date a record is made. These records shall include, but are not limited to:

- a. Type of fuel burned and its sulfur content; and quantity of fuel burned (BTU/hr), and the injection rate for any reactant chemicals used by the emission control system(s).

VI. Permit conditions (continued)

Condition #16329

For S-3, S-4, S-5, S-6, S-7 [Boilers]

- b. Continuous emission monitoring measurements for NO_x, CO, and O₂ or CO₂.
- c. Source test measurements for NO_x, CO, O₂, CO₂, and ammonia.
- d. Date, time, and duration of any startup, shutdown, or malfunction of any boiler, emission control equipment, or emission monitoring equipment.
- e. Results of performance testing, evaluations, calibrations, checks, adjustments, and maintenance of any CEMS.
- f. Hourly systemwide NO_x emission rate, as prescribed in Condition Nos. 1, 3, and 4.
- g. The capacity factors of any boiler affected by the limited exemption of Condition Nos. 4 and 5. [Basis: CEQA]

VII. APPLICABLE EMISSION LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included only to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, either annual (A), quarterly (Q), monthly (M), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

Table VII-A
S-1 Gas Turbine Unit No. 1-Engine "A"
S-2 Gas Turbine Unit No. 1-Engine "B"

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQM D 6-301	N		Ringelmann No. 1	BAAQMD permit condition 15815 Parts 1, 2	P/D Daily when in use	Visual inspection and record keeping
	BAAQM D 6-310.3	Y		0.15 grains/dscf @ 6% O ₂		N	
	SIP 6-301	Y		Ringelmann No. 1	BAAQMD permit condition 15815 Parts 1, 2	N	Visual inspection and record keeping
NO _x	BAAQM D 9-9-302 & BAAQM D permit condition 15815 part 5	Y		65 ppmv @ 15% O ₂ (dry basis) based on a clock hour average & operation less than 877 hours per calendar year	BAAQMD 9-9-502 & BAAQMD permit condition 15815 part 6	P/D Daily when in use	Record-keeping

**VII. Applicable Emission Limits & Compliance Monitoring Requirements
 (continued)**

**Table VII-A (continued)
 S-1 Gas Turbine Unit No. 1-Engine "A"
 S-2 Gas Turbine Unit No. 1-Engine "B"**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO ₂	BAAQM D 9-1-301	N		GLC ¹ of 0.5 ppm for 3 minutes or 0.25 ppm for 60 minutes or 0.05 ppm for 24 hours		N	
	BAAQM D 9-1-302	Y		300 ppmvd		N	
	BAAQM D 9-1-304	Y		Sulfur content of non- gaseous fuel <0.5% by weight	BAAQMD cond #15815, part 6	P/E	fuel analysis
	SIP 9-1-301	N		Federal std: GLC ¹ of 140 ppb, 24-hr average, once/yr and 30 ppb, annual average State std: GLC ¹ of 40 ppb, 24-hr average, and 250 ppb, 1 hr average		N	
Water injection rate	Record-keeping	Y		Weight ratio of water to fuel not less than 0.55	BAAQMD condition 15815 part 6	P/D Daily when in use	Record-keeping
Fuel oil restriction	BAAQM D permit condition 15816 part 4	Y		Use of No. 2 or lighter oil.	BAAQMD permit condition 15815 part 6	P/D Daily when in use	Record-keeping

**VII. Applicable Emission Limits & Compliance Monitoring Requirements
 (continued)**

**Table VII-B
 S-3, Electric Generation Boiler No. 3
 S-4, Electric Generation Boiler No. 4
 S-5, Electric Generation Boiler No. 5
 S-6, Electric Generation Boiler No. 6**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQM D 6-301	N		Ringelmann No. 1		C	COM
	BAAQM D 6-302	Y		< 20% opacity during any 3 min/hr	BAAQMD 1-520.1	C	COM
	BAAQM D 6-304	Y		Ringelmann No. 2 during tube cleaning		C	COM
	BAAQM D 6-310.3	Y		0.15 grains/dscf @ 6% O ₂		N	
	SIP 6-301	Y		Ringelmann No. 1		C	COM
	40 CFR 75	Y		None	40 CFR 75	C	COM
SO ₂	BAAQM D 9-1-301	N		GLC ¹ of 0.5 ppm for 3 minutes or 0.25 ppm for 60 minutes or 0.05 ppm for 24 hours		N	
	BAAQM D 9-1-302	Y		300 ppmvd		N	
	BAAQM D 9-1-304	Y		Sulfur content of non-gaseous fuel <0.5% by weight		N	
	SIP 9-1-301	Y		Federal std: GLC ¹ of 140 ppb, 24-hr average, once/yr and 30 ppb, annual average State std: GLC ¹ of 40 ppb, 24-hr average, and 250 ppb, 1 hr average		N	

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

Table VII-B (continued)
S-3, Electric Generation Boiler No. 3
S-4, Electric Generation Boiler No. 4
S-5, Electric Generation Boiler No. 5
S-6, Electric Generation Boiler No. 6

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	40 CFR 75	Y		None	40 CFR 75	P/D (fuel oil only)	fuel analysis
	BAAQMD 9-11-306.1.1	Y		175 ppmv @ 3% O ₂ (dry basis) for natural gas firing based on a clock hour average	BAAQMD 9-11-501, 503	C	CEMS
	BAAQMD 9-11-306.1.2	Y		500 ppmv @ 3% O ₂ (dry basis) for oil firing based on a clock hour average	BAAQMD 9-11-501, 503	C	CEMS
	BAAQMD 9-11-306.1.3	Y		heat input weighted average of emission limits when natural gas and oil fired simultaneously	BAAQMD 9-11-501, 503	C	CEMS
	BAAQMD 9-11-308	Y		0.28 lbs/MMBTU system-wide average over previous 30 days	BAAQMD 9-11-501, 503	C	CEMS
	BAAQMD 9-11-309.1	N		0.160 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	BAAQMD 9-11-309.1	N	1/1/99	0.115 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	BAAQMD 9-11-309.1	N	1/1/00	0.105 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS

**VII. Applicable Emission Limits & Compliance Monitoring Requirements
 (continued)**

**Table VII-B (continued)
 S-3, Electric Generation Boiler No. 3
 S-4, Electric Generation Boiler No. 4
 S-5, Electric Generation Boiler No. 5
 S-6, Electric Generation Boiler No. 6**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQM D 9-11-309.1	N	1/1/02	0.057 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	BAAQM D 9-11-309.1	N	1/1/04	0.037 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	BAAQM D 9-11-309.1	N	1/1/05	0.018 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	40 CFR 75	Y		None	40 CFR 75	C	CEMS
	BAAQM D Permit Condition 16329, #3	N		0.188 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	BAAQM D Permit Condition 16329, #3	N		0.160 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	BAAQM D Permit Condition 16329, #3	N		0.115 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	BAAQM D Permit Condition 16329, #3	N	1/1/00	0.105 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	BAAQM D Permit Condition 16329, #3	N	1/1/02	0.057 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS

**VII. Applicable Emission Limits & Compliance Monitoring Requirements
 (continued)**

Table VII-B (continued)
S-3, Electric Generation Boiler No. 3
S-4, Electric Generation Boiler No. 4
S-5, Electric Generation Boiler No. 5
S-6, Electric Generation Boiler No. 6

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO _x	BAAQMD Permit Condition 16329, #3	N	1/1/04	0.037 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	BAAQMD Permit Condition 16329, #3	N	1/1/05	0.018 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	BAAQMD Permit Condition 16329, #5	N		Gaseous Fuel: 175 ppmv @ 3% O ₂ (dry basis), clock hour average. Non-Gaseous Fuel: 500 ppmv @ 3% O ₂ (dry basis), clock hour average. Simultaneous Gaseous and Non-Gaseous: heat input weighted average of above emission limits.	BAAQMD 9-11-306	C	CEMS
CO	BAAQMD 9-11-310.1	Y		400 ppmv @ 3% O ₂ (dry basis) during steady state compliance tests	BAAQMD 9-11-501, 503	C	CEMS
	BAAQMD 9-11-310.2	Y		1000 ppmv @ 3% O ₂ (dry basis) during normal operation based on a clock hour average	BAAQMD 9-11-501, 503	C	CEMS

**VII. Applicable Emission Limits & Compliance Monitoring Requirements
 (continued)**

Table VII-B (continued)
S-3, Electric Generation Boiler No. 3
S-4, Electric Generation Boiler No. 4
S-5, Electric Generation Boiler No. 5
S-6, Electric Generation Boiler No. 6

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Permit Condition 16329, #7a	N		400 ppmv @ 3% O ₂ (dry basis) during steady state compliance tests	BAAQMD 9-11-501, 503	C	CEMS
	BAAQMD Permit Condition 16329, #7b	N		1000 ppmv @ 3% O ₂ (dry basis) during all operations other than steady state compliance tests on a clock hour average	BAAQMD 9-11-501, 503	C	CEMS
Ammonia	BAAQMD 9-11-311	Y	upon installation of an applicable control device	10 ppmv @ 3% O ₂ (dry basis) based on rolling 60 minute average upon installation of an applicable control device	BAAQMD 9-11-402	P/Q	Quarterly tests
	BAAQMD Permit Condition 16329, #8	N	upon installation of an applicable control device	10 ppmv @ 3% O ₂ (dry basis) based on rolling 60 minute average upon installation of an applicable control device	BAAQMD 9-11-402	P/Q	Quarterly tests

**VII. Applicable Emission Limits & Compliance Monitoring Requirements
 (continued)**

Table VII-B (continued)
S-3, Electric Generation Boiler No. 3
S-4, Electric Generation Boiler No. 4
S-5, Electric Generation Boiler No. 5
S-6, Electric Generation Boiler No. 6

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Lead	BAAQM D 11-1-301	Y		6.75 kg/day		N	N/A
	BAAQM D 11-1-302	Y		1.0 µg/m ³ averaged over 24		N	N/A
CO ₂	40 CFR 75	Y		None	40 CFR 75	C	CEMS

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

**Table VII-C
 S-7, Utility Boiler No. 7**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQM D 6-301	N		Ringelmann No. 1		C	COM
	BAAQM D 6-302	Y		< 20% opacity during any 3 min/hr	BAAQMD 1-520.1	C	COM
	BAAQM D 6-304	Y		Ringelmann 2 during tube cleaning		C	COM
	BAAQM D 6-310.3	Y		0.15 grains/dscf @ 6% O ₂		N	
	SIP 6-301	Y		Ringelmann No. 1		C	COM
	40 CFR 75	Y		None	40 CFR 75	C	COM
SO ₂	BAAQM D 9-1-301	N		GLC ¹ of 0.5 ppm for 3 minutes or 0.25 ppm for 60 minutes or 0.05 ppm for 24 hours		N	
	BAAQM D 9-1-302	Y		300 ppmvd		N	
	BAAQM D 9-1-304	Y		Sulfur content of non-gaseous fuel <0.5% by weight		N	
	SIP 9-1-301	Y		Federal std: GLC ¹ of 140 ppb, 24-hr average, once/yr and 30 ppb, annual average State std: GLC ¹ of 40 ppb, 24-hr average, and 250 ppb, 1 hr average		N	
	40 CFR 75	Y		None	40 CFR 75	P/D (fuel oil only)	fuel analysis

**VII. Applicable Emission Limits & Compliance Monitoring Requirements
 (continued)**

**Table VII-C (continued)
 S-7, Utility Boiler No. 7**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-11-304.1.1	Y		175 ppmv @ 3% O ₂ (dry basis) for natural gas firing based on a clock hour average	BAAQMD 9-11-501, 503	C	CEMS
	BAAQMD 9-11-304.1.2	Y		700 ppmv @ 3% O ₂ (dry basis) for oil firing based on a clock hour average	BAAQMD 9-11-501, 503	C	CEMS
	BAAQMD 9-11-304.1.3	Y		heat input weighted average of emissions when natural gas and oil fired simultaneously	BAAQMD 9-11-501, 503	C	CEMS
	BAAQM D 9-11-308	Y		0.28 lbs/MMBTU system-wide average over previous 30 days	BAAQMD 9-11-501, 503	C	CEMS
	BAAQM D 9-11-309.1	N		0.160 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	BAAQM D 9-11-309.1	N	1/1/99	0.115 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS

**VII. Applicable Emission Limits & Compliance Monitoring Requirements
 (continued)**

**Table VII-C (continued)
 S-7, Utility Boiler No. 7**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQM D 9-11-309.1	N	1/1/00	0.105 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS

NOx	BAAQM D 9-11-309.1	N	1/1/02	0.057 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	BAAQM D 9-11-309.1	N	1/1/04	0.037 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	BAAQM D 9-11-309.1	N	1/1/05	0.018 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	40 CFR 75	Y		None	40 CFR 75	C	CEMS
	BAAQM D Permit Condition 16329, #3	N		0.188 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	BAAQM D Permit Condition 16329, #3	N		0.160 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS

**VII. Applicable Emission Limits & Compliance Monitoring Requirements
 (continued)**

**Table VII-C (continued)
 S-7, Utility Boiler No. 7**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQM D Permit Condition 16329, #3	N		0.115 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	BAAQM D Permit Condition 16329, #3	N	1/1/00	0.105 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	BAAQM D Permit Condition 16329, #3	N	1/1/02	0.057 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
	BAAQM D Permit Condition 16329, #3	N	1/1/04	0.037 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
NOx	BAAQM D Permit Condition 16329, #3	N	1/1/05	0.018 lbs/MMBTU system-wide average on a clock hour basis	BAAQMD 9-11-501, 503	C	CEMS
CO	BAAQM D 9-11-310.1	Y		400 ppmv @ 3% O ₂ (dry basis) during steady state compliance tests	BAAQMD 9-11-501, 503	C	CEMS
	BAAQM D 9-11-310.2	Y		1000 ppmv @ 3% O ₂ (dry basis) during normal operation based on a clock hour average	BAAQMD 9-11-501, 503	C	CEMS

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

Table VII-C (continued)
S-7, Utility Boiler No. 7

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQM D Permit Condition 16329, #7a	N		400 ppmv @ 3% O ₂ (dry basis) during steady state compliance tests	BAAQMD 9-11-501, 503	C	CEMS
	BAAQM D Permit Condition 16329, #7b	N		1000 ppmv @ 3% O ₂ (dry basis) during all operations other than steady state compliance tests on a clock hour average	BAAQMD 9-11-501, 503	C	CEMS
Ammonia	BAAQM D 9-11-311	Y	upon installation of an applicable control device	10 ppmv @ 3% O ₂ (dry basis) based on rolling 60 minute average upon installation of an applicable control device	BAAQMD 9-11-402	P/Q	Quarterly tests
Ammonia	BAAQM D Permit Condition 16329, #8	N	upon installation of an applicable control device	10 ppmv @ 3% O ₂ (dry basis) based on rolling 60 minute average upon installation of an applicable control device	BAAQMD 9-11-402	P/Q	Quarterly tests
Lead	BAAQM D 11-1-301	Y		6.75 kg/day		N	N/A
	BAAQM D 11-1-302	Y		1.0 µg/m ³ averaged over 24 hours		N	N/A
CO ₂	40 CFR 75	Y		None	40 CFR 75	C	CEMS

**VII. Applicable Emission Limits & Compliance Monitoring Requirements
 (continued)**

**Table VII-D
 S-29, Cold Solvent Degreaser**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-16-304	Y		Trichloroethylene usage \leq 3.2 gallons per day	8-16-501	P/E	Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

**Table VII-E
 S-30, Maintenance Coating Operation**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Regulation 8-3-302	Y		content of air dried coating < 250 g/l	Regulation 8-3-403	P/E	Labeling & Records
	BAAQMD Regulation 8-3-304	Y		content of coatings < specified VOC content	Regulation 8-3-403	P/E	Labeling & Records
	BAAQMD Regulation 8-19-302	Y		content of air dried coating < 2.8 lb/gal	Regulation 8-19-501	P/E	Records
	BAAQMD Regulation 8-19-312	Y		content of coatings < specified VOC content	Regulation 8-19-501	P/E	Records
	BAAQMD Regulation 8-31-302	Y		content of coatings < specified VOC content	Regulation 8-31-501	P/E	Records
	BAAQMD Regulation 8-31-306	Y		content of coatings < specified VOC content	Regulation 8-31-501	P/E	Records
	BAAQMD Regulation 8-31-306	Y		content of coatings < specified VOC content	Regulation 8-31-501	P/E	Records
	BAAQMD Regulation 8-31-309	Y		content of coatings < specified VOC content	Regulation 8-31-501	P/E	Records

**VII. Applicable Emission Limits & Compliance Monitoring Requirements
 (continued)**

Coating Usage	BAAQMD Permit Condition 8936 part 1	Y		1200 gallons in any 12 consecutive months	BAAQMD Permit Condition 8936 part 3	P/E	Records
Solvent Usage	BAAQMD Permit Condition 8936 part 2	Y		150 gallons in any 12 consecutive months	BAAQMD Permit Condition 8936 part 3	P/E	Records

**Table VII-F
 S-31, Maintenance Wipe Cleaning**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-16-304	Y		Trichloroethylene usage \leq 3.2 gallons per day	8-16-501	P/E	Records
Solvent Usage	BAAQMD Permit Condition 8937 part 1	Y		100 gallons in any 12 consecutive months	BAAQMD Permit Condition 8937 part 3	P/E	Records
1,1,1 Trichloro-ethane Usage	BAAQMD Permit Condition 8937 part 2	N		20 gallons in any 12 consecutive months	BAAQMD Permit Condition 8937 part 3	P/E	Records

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally found in Section 600 of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VII - Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

Table VIII

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume 1, Evaluation of Visible Emissions
BAAQMD Regulation 6-304	Tube Cleaning	Manual of Procedures, Volume 1, Evaluation of Visible Emissions
BAAQMD Regulation 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling
SIP Regulation 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume 1, Evaluation of Visible Emissions
BAAQMD Regulation 8-3-302	VOC Limits	Manual of Procedures, Volume III, Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings or Manual of Procedures, Volume III, Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings
BAAQMD Regulation 8-3-304	VOC Limits	Manual of Procedures, Volume III, Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings or Manual of Procedures, Volume III, Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings
BAAQMD Regulation 8-8-112	Wastewater (Oil-Water) Separators; Exemption Wastewater Critical Organic Compound Concentration and/or Temperature	Manual Procedures, Volume III, Lab Method 33, Wastewater Analysis for Critical Organic Compounds

VIII. Test Methods (continued)

Table VIII (continued)

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 8-19-302	VOC Limits	Manual of Procedures, Volume III, Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings or Manual of Procedures, Volume III, Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings Manual of Procedures, .Volume IV, ST-7 or EPA Method 25 or 25A, Determination of Emissions of Organic Compounds If EPA Method 25 or 25A is used, control device equivalency (if applicable) is determined as prescribed in 55 FR 26865
BAAQMD Regulation 8-19-312	VOC Limits	Manual of Procedures, Volume III, Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings or Manual of Procedures, Volume III, Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or 25A If EPA Method 25 or 25A is used, control device equivalency (if applicable) is determined as prescribed in 55 FR 26865
BAAQMD Regulation 9-1-302	General Emission Limits	Manual of Procedures, Volume IV, ST-19 A or B, Sampling and Analysis of Gas Streams; Manual of Procedures, Volume III, Method 10, Sulfur Content of Fuels
BAAQMD 9-1-304	Fuel Burning (Liquid and Solid Fuels)	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils.
BAAQMD 9-9-302	NO _x Emissions from Stationary Gas Turbines	District manual of Procedures, Volume IV, ST-13A or B, Determination of Nitrogen Oxides; ST-14, Determination of Oxygen

VIII. Test Methods (continued)

Table VIII (continued)

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 9-11-302	NO _x Emissions from Utility Electric Power Generating Boilers, Interim Compliance NO _x Emission Limits for Boilers with a Rated Heat Input Capacity Greater Than or Equal to 1.75 Billion BTU/hour	District Manual of Procedures, Volume IV, ST-13A, Determination of Nitrogen Oxides; ST-14, Determination of Oxygen; ST-5, Determination of Carbon Dioxide, ST-6
BAAQMD Regulation 9-11-304.1.1	NO _x Emissions from Utility Electric Power Generating Boilers, Gaseous Fuel	District Manual of Procedures, Volume IV, ST-13A, Determination of Nitrogen Oxides; ST-14, Determination of Oxygen; ST-5, Determination of Carbon Dioxide, ST-6
BAAQMD Regulation 9-11-304.1.2	NO _x Emissions from Utility Electric Power Generating Boilers, Non-Gaseous Fuel	District Manual of Procedures, Volume IV, ST-13A, Determination of Nitrogen Oxides; ST-14, Determination of Oxygen; ST-5, Determination of Carbon Dioxide, ST-6
BAAQMD 9-11-304.1.3	NO _x Emissions from Utility Electric Power Generating Boilers, Gaseous Fuel and Non-Gaseous Fuel	District Manual of Procedures, Volume IV, ST-13A, Determination of Nitrogen Oxides; ST-14, Determination of Oxygen; ST-5, Determination of Carbon Dioxide
BAAQMD 9-11-306.1.1	NO _x Emissions from Utility Electric Power Generating Boilers, Gaseous Fuel	District Manual of Procedures, Volume IV, ST-13A, Determination of Nitrogen Oxides; ST-14, Determination of Oxygen; ST-5, Determination of Carbon Dioxide, ST-6
BAAQMD 9-11-306.1.2	NO _x Emissions from Utility Electric Power Generating Boilers, Non-Gaseous Fuel	District Manual of Procedures, Volume IV, ST-13A, Determination of Nitrogen Oxides; ST-14, Determination of Oxygen; ST-5, Determination of Carbon Dioxide, ST-6
BAAQMD 9-11-306.1.3	NO _x Emissions from Utility Electric Power Generating Boilers, Gaseous Fuel and Non-Gaseous Fuel	District Manual of Procedures, Volume IV, ST-13A, Determination of Nitrogen Oxides; ST-14, Determination of Oxygen; ST-5, Determination of Carbon Dioxide

VIII. Test Methods (continued)

Table VIII (continued)

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 9-11-308	System-wide NOx Emission Rate Limit	District Manual of Procedures, Volume IV, ST-13A, Determination of Nitrogen Oxides; ST-14, Determination of Oxygen; ST-5, Determination of Carbon Dioxide
BAAQMD 9-11-309	Advanced Technology Alternative Emission Control Plan	District Manual of Procedures, Volume IV, ST-13A, Determination of Nitrogen Oxides; ST-14, Determination of Oxygen; ST-5, Determination of Carbon Dioxide
BAAQMD 9-11-309.1	System-wide NOx Emission Rate Limits	District Manual of Procedures, Volume IV, ST-13A, Determination of Nitrogen Oxides; ST-14, Determination of Oxygen; ST-5, Determination of Carbon Dioxide
BAAQMD 9-11-310.1	CO Emission Limits During Steady-State Compliance Tests	District Manual of Procedures, Volume IV, ST-6, Determination of Carbon Monoxide; ST-14, Determination of Oxygen; ST-5, Determination of Carbon Dioxide, ST-6,
BAAQMD 9-11-310.2	CO Emission Limits During Normal Operations	District Manual of Procedures, Volume IV, ST-6, Determination of Carbon Monoxide; ST-14, Determination of Oxygen; ST-5, Determination of Carbon Dioxide
BAAQMD 9-11-311	Ammonia Emission Limit for Boilers with a Rated Heat Input Capacity Greater Than or Equal to 250 million BTU/hour	District Manual of Procedures, Volume IV, ST-1B, EPA Method 350.3 and Determination of Ammonia, or alternative method approved by the APCO
BAAQMD 11-1-301	Hazardous Pollutants, Lead, Daily Emissions	District Manual of Procedures, Volume IV, ST-9, Determination of Daily Emission Limits
BAAQMD Permit Condition 16329, #3	System-wide NOx Emission Rate Limits	District Manual of Procedures, Volume IV, ST-13A, Determination of Nitrogen Oxides; ST-14, Determination of Oxygen; ST-5, Determination of Carbon Dioxide
BAAQMD Permit Condition 16329, #5	NOx Emission Limits for Boilers that Qualify for the Limited Capacity Factor Exemption	District Manual of Procedures, Volume IV, ST-13A, Determination of Nitrogen Oxides; ST-14, Determination of Oxygen; ST-5, Determination of Carbon Dioxide

VIII. Test Methods (continued)

Table VIII (continued)

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Permit Condition 16329, #7a	CO Emission Limits During Steady-State Compliance Tests	District Manual of Procedures, Volume IV, ST-6, Determination of Carbon Monoxide; ST-14, Determination of Oxygen; ST-5, Determination of Carbon Dioxide, ST-6,
BAAQMD Permit Condition 16329, #7b	CO Emission Limits During All Operations Other Than Steady-State Compliance Tests	District Manual of Procedures, Volume IV, ST-6, Determination of Carbon Monoxide; ST-14, Determination of Oxygen; ST-5, Determination of Carbon Dioxide
BAAQMD Permit Condition 16329, #8	Ammonia Emission Limit for Boilers with a Rated Heat Input Capacity Greater Than or Equal to 250 million BTU/hour	District Manual of Procedures, Volume IV, ST-1B, EPA Method 350.3 and Determination of Ammonia, or alternative method approved by the APCO

IX. TITLE IV ACID RAIN PERMIT

Effective January 1, 1998 through December 31, 2002

ISSUED TO:

**Pacific Gas and Electric Company
Hunters Point Power Plant
1000 Evans Avenue
San Francisco, CA 94124**

PLANT SITE LOCATION:

**1000 Evans Avenue
San Francisco, CA 94124**

ISSUED BY:

(original document signed 9/14/98)

Ellen Garvey, Executive Officer/
Air Pollution Control Officer

Date

**Type of Facility: Electric Generation
Primary SIC: 4911
Product: Electricity**

DESIGNATED REPRESENTATIVE

**Name: E. James Macias
Title: Senior Vice President and General Manager
Generation, Transmission, and Supply
Phone: (415) 973-1441**

FACILITY CONTACT PERSON:

**Name: Avtar Virdee
Title: Plant Manager
Phone: (415) 695-2200**

IX. Acid Rain Permit (continued)

ACID RAIN PERMIT CONTENTS

- 1) Statement of Basis
- 2) SO₂ allowance allocated under this permit and NO_x requirements for each affected unit.
- 3) Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements of conditions.
- 4) The permit application submitted for this source. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application.

1) STATEMENT OF BASIS

Statutory and Regulatory Authorities: In accordance with District Regulation 2, Rule 7 and Titles IV and V of the Clean Air Act, the Bay Area Air Quality Management District issues this permit pursuant to District Rule Regulation 2, Rule 7.

2) SO₂ ALLOWANCE ALLOCATIONS

	Year	1998	1999	2000	2001	2002
BOILER 3 BAAQMD S-3	SO ₂ allowances under Tables 2, 3, or 4 of 40 CFR Part 73	NA	NA	76*	76*	76*
	NO _x Limit	This unit is not subject to the NO _x requirements from 40 CFR Part 76 as this unit is not capable of firing on coal.				

	Year	1998	1999	2000	2001	2002
	SO ₂ allowances under Tables 2, 3, or 4 of 40 CFR Part 73	NA	NA	5*	5*	5*

IX. Acid Rain Permit (continued)

BOILER 4 BAAQMD S-4	NOx Limit	This unit is not subject to the NOx requirements from 40 CFR Part 76 as this unit is not capable of firing on coal.
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	Year	1998	1999	2000	2001	2002
BOILER 5 BAAQMD S-5	SO ₂ allowances under Tables 2, 3, or 4 of 40 CFR Part 73	NA	NA	74*	74*	74*
	NOx Limit	This unit is not subject to the NOx requirements from 40 CFR Part 76 as this unit is not capable of firing on coal.				

	Year	1998	1999	2000	2001	2002
BOILER 6 BAAQMD S-6	SO ₂ allowances under Tables 2, 3, or 4 of 40 CFR Part 73	NA	NA	1*	1*	1*
	NOx Limit	This unit is not subject to the NOx requirements from 40 CFR Part 76 as this unit is not capable of firing on coal.				

	Year	1998	1999	2000	2001	2002
BOILER 7 BAAQMD S-7	SO ₂ allowances under Tables 2, 3, or 4 of 40 CFR Part 73	NA	NA	192*	192*	192*
	NOx Limit	This unit is not subject to the NOx requirements from 40 CFR Part 76 as this unit is not capable of firing on coal.				

* The number of allowances allocated to Phase II affected units by U.S. EPA may change in a 1998 revision to 40 CFR part 73 Tables 2, 3, and 4. In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by USEPA. Neither of the aforementioned conditions necessitate a revision to the unit SO₂ allowance allocations identified in this permit.

3) COMMENTS, NOTES AND JUSTIFICATIONS

None

IX. Acid Rain Permit (continued)

4) PERMIT APPLICATION

Attached

X. GLOSSARY

AB 2588

California Assembly Bill 2588 (Air Toxic "Hot Spots" Program)

APCO

Air Pollution Control Officer

ASTM

American Society for Testing and Materials

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CEMS

Continuous Emission Monitoring System

CEQA

California Environmental Quality Act

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

Cumulative Increase

The sum of permitted emissions from each new or modified source since a specified date. Used to determine whether threshold-based requirements are triggered.

IX. Acid Rain Permit (continued)

X. Glossary (continued)

District

The Bay Area Air Quality Management District

EPA

The federal Environmental Protection Agency

Federally Enforceable, FE

All limitations and conditions which are enforceable by the Administrator of the 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), and also including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

FR

Federal Register

HAP

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by both 40 CFR Part 63, and District Regulation 2, Rule 5.

Major Facility

A facility with potential emissions of regulated air pollutants greater than or equal to 100 tons per year, greater than or equal to 10 tons per year of any single hazardous air pollutant, and/or greater than or equal to 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity as determined by the EPA administrator.

MFR

Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Act and implemented by District Regulation 2, Rule 6.

MOP

The District's Manual of Procedures

N/A

Not applicable

NAAQS

National Ambient Air Quality Standards

NESHAPS

National Emission Standards for Hazardous Air Pollutants (Contained in 40 CFR Part 61)

X. Glossary (continued)

NMHC

Non-methane Hydrocarbons

NO_x

Oxides of nitrogen

NSPS

Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Act, and implemented by both 40 CFR Part 60 and District Regulation 10.

NSR

New Source Review. A federal program for preconstruction review and permitting of new and modified sources of air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any on-site contemporaneous emission reduction credits. Applies to emissions of POC, NO_x, PM₁₀, and SO₂.

PG&E

Pacific Gas & Electric Company

Phase II Acid Rain Facility

A facility that generates electricity for sale through fossil-fuel combustion and by virtue of certain other characteristics (defined in Regulation 2, Rule 6) is subject to Titles IV and V of the Clean Air Act.

POC

Precursor Organic Compounds

PM

Total Particulate Matter

PM₁₀

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

X. Glossary (continued)

PSD

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

SIP

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

SO₂

Sulfur dioxide

ST

Source test

Title V

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

TSP

Total Suspended Particulate

VOC

Volatile Organic Compounds

Units of Measure:

BTU	=	British Thermal Unit
dscf	=	dry standard cubic feet
gal	=	gallon
hp	=	horsepower
hr	=	hour
lb	=	pound
max	=	maximum
min	=	minute
MM	=	million
ppmv	=	parts per million, by volume

X. Glossary (continued)

psia = pounds per square inch, absolute

XI. APPENDIX A - APPLICABLE STATE IMPLEMENTATION PLAN

See Attachments