

Bay Area Air Quality Management District

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

Proposed

MAJOR FACILITY REVIEW PERMIT

Issued To:

NRG Energy Center San Francisco LLC
Facility #B6151

Facility Address:

465 Stevenson Street
San Francisco, CA 94103

Mailing Address:

410 Jessie Street
San Francisco, CA 94103

Responsible Official

Gordon Judd
(415) 777-3415

Facility Contact

Gordon Judd
(415) 777-3415

Type of Facility: Steam Generation Facility BAAQMD Engineer Division Contact
Primary SIC: 4911 Xuna Cai
Product: Steam generation for commercial usage

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Jack P. Broadbent, Executive Officer/Air Pollution Control Officer

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 5/4/11);
- SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 6/28/99);
- BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 3/4/09);
- SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 1/26/99);
- BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 6/15/05);
- SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through 1/26/99);
- BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 12/21/04);
- SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 1/26/99);
- BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants
(as adopted by the District Board on 1/6/105);
- BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 4/16/03); and
- SIP Regulation 2, Rule 6 – Permits, Major Facility Review
(as approved by EPA through 6/23/95)

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

1. This Major Facility Review Permit was issued on [] and expires on **[when issued, enter 5th anniversary of issue date]**. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than **[when issued, enter date 6 months prior to permit expiration date]** and no earlier than **[when issued, enter date 12 months prior to expiration date]**. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after [when issued, enter 5th anniversary of issue date].** If the permit renewal has not been issued by [], but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407, & 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 re-issuance, or modification; or

I. Standard Conditions

- 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)
 5. The filing of a request by the facility for a permit modification, revocation and reissuance, or termination, or the filing 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, or 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's 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 or the potential to emit 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)
 11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. 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. The certifications shall be signed by a responsible official for the facility. (MOP Volume II, Part 3, §4.11)

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12. The permit holder is responsible for compliance, and certification of compliance, with all conditions of the permit, regardless whether it acts through employees, agents, contractors, or subcontractors. (Regulation 2-6-307)

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 that 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

1. The permit holder must provide any information, records, and reports requested or specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)
2. 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)

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be [date of issuance] to [six months later]. The report shall be submitted by [one month after end of reporting period]. Subsequent reports shall be for the following periods: [____ 1st through ____ 30th or 31st] and [____ 1st through ____ 30th or 31st], and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The responsible office shall certify that the reports are 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 period will be xxxx 1st through xxxx 30th or 31st. The certification shall be submitted by xxxx 30th or 31st of each year. The certification

I. Standard Conditions

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
USEPA, 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

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 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. (MOP Volume II, Part 3, §4.8)
3. 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

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. Miscellaneous Conditions

1. The maximum capacity for each source as shown in Table II-A is the maximum allowable capacity. Exceedance of the maximum allowable capacity for any source is a violation of Regulation 2, Rule 1, Section 301. (Regulation 2-1-301)

II. EQUIPMENT LIST

Table II-A Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2-1-302. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity
S-3	Multi-fuel Watertube Boiler, No.3 (natural gas, fuel oil)	Keeler	DK-10 15	72 MM BTU/hr
S-4	Natural Gas Water tube boiler No.4 (natural gas, fuel oil)	Keeler	DK-10 15	72 MM BTU/hr
S-5	Multi-fuel Watertube Boiler No.5 (natural gas, fuel oil)	Union Iron Works	A-type	65 MM BTU/hr
S-6	Multi-fuel Watertube Boiler No.6 (natural gas, fuel oil)	Erie City Keystone	O-type	130 MM BTU/hr
S-7	Multi-fuel Watertube Boiler No.7 (natural gas, fuel oil)	Combustion Engineering	A-type	130 MM BTU/hr
S-9	Multi-fuel Watertube Boiler No.8 (natural gas)	Nebraska	O-type	99.93 MM BTU/hr
S-10	Diesel fuel oil storage tank			20,000 gallons
S-11	Diesel fuel oil storage tank			20,000 gallons
S-12	Diesel fuel oil storage tank			20,000 gallons
S-13	Emergency Diesel Engine	Cummins	6CT8.3G	207 bhp

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. This section also contains provisions that may apply to temporary sources.

The dates in parentheses 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 of Directors
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 the SIP requirements can be viewed on the EPA Region 9 website. The address is:

<http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions>

NOTE:

There are differences between the current BAAQMD rules and the version of the rules in the SIP. All sources must comply with both versions of the rules until US EPA has reviewed and approved (or disapproved) the District’s revision of the regulations.

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (5/4/11)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (03/04/09)	N
SIP Regulation 2, Rule 1	General Requirements (1/26/99)	Y
BAAQMD 2-1-429	Federal Emissions Statement (12/21/04)	N
SIP Regulation 2-1-429	Federal Emissions Statement (4/3/95)	Y

III. Generally Applicable Requirements

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	Y
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (7/9/08)	N
SIP Regulation 5	Open Burning (9/4/98)	Y
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (12/5/07)	N
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)	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 2	Organic Compounds – Miscellaneous Operations (7/20/05)	N
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (3/22/95)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/21/01)	Y
BAAQMD Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 15	Organic Compounds – Emulsified and Liquid Asphalts (6/1/94)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/05)	N
SIP Regulation 8, Rule 40	Organic Compounds - Aeration of Contaminated Soil and Removal of Underground Storage Tanks (4/19/01)	Y
BAAQMD Regulation 8, Rule 47	Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (6/15/05)	N
SIP Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (4/26/95)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (7/17/02)	N
SIP Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (2/26/02)	Y
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)	N
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)	Y
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/7/98)	N

III. Generally Applicable Requirements

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
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
California Health and Safety Code Section 41750 et seq.	Portable Equipment	N
California Health and Safety Code Section 44300 et seq.	Air Toxics "Hot Spots" Information and Assessment Act of 1987	N
California Health and Safety Code Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines	N
California Health and Safety Code Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater	N
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (6/19/95)	Y
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (4/13/05)	
Subpart F, 40 CFR 82.156	Recycling and Emissions Reductions – Required Practices	Y
Subpart F, 40 CFR 82.161	Recycling and Emissions Reductions – Technician Certification	Y
Subpart F, 40 CFR 82.166	Recycling and Emissions Reductions – Reporting and Recordkeeping Requirements	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 parentheses 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 of Directors
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. The full text of the SIP requirements can be viewed on the EPA Region 9 website. The address is:

<http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions>

All other text may be found in the regulations themselves.

**Table IV-A
 S-3, S-4, & S-5 Boilers**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (12/5/07)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Heat Transfer Operations	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	

IV. Source-Specific Applicable Requirements

**Table IV-A
 S-3, S-4, & S-5 Boilers**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-310.3	Heat Transfer Operations	Y	
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 Limitations	N	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	N	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9, Rule 7	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (7/30/08)		
9-7-301	Interim Emission Limits	N	
9-7-301.1	NOx limit – Gaseous Fuel	N	
9-7-301.2	NOx limit – Non-Gaseous Fuel	N	
9-7-301.4	CO limit	N	
9-7-307	Final Emission Limits	N	
9-7-307.5	NOx and CO Limit	N	1/1/12
9-7-308	Compliance Schedule	N	
9-7-311	Insulation Requirements	N	
9-7-312	Stack Gas Temperature Limits	N	1/1/11
9-7-313	Tune-Up Requirements	N	
9-7-403	Initial Demonstration of Compliance	N	1/1/12
9-7-503	Records	N	
9-7-503.1	Documentation of Tune-Ups	N	
9-7-503.4	Source test records	N	
SIP Regulation 9, Rule 7	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (12/15/97)		

IV. Source-Specific Applicable Requirements

**Table IV-A
 S-3, S-4, & S-5 Boilers**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-7-301	Emission Limits-Gaseous Fuel	Y	
9-7-301.1	NOx limit	Y	
9-7-301.2	CO limit	Y	
9-7-305	Natural Gas Curtailment-Non-Gaseous Fuel	Y	
9-7-305.1	NOx limit	Y	
9-7-305.2	CO limit	Y	
9-7-306	Equipment Testing Non-Gaseous Fuel	Y	
9-7-306.1	NOx limit	Y	
9-7-306.2	CO limit	Y	
9-7-306.3	Time limit	Y	
9-7-503	Records	Y	
9-7-503.2	Records of natural gas curtailment	Y	
9-7-503.3	Records of equipment testing	Y	
9-7-503.4	Source test records	Y	
BAAQMD Condition #21200			
part 10	Compliance source tests requirements (basis: BACT, Offsets, cumulative increase, Reg.9-7-600)	Y	
part 11	Records (basis: BACT, Offsets, cumulative increase)	Y	

IV. Source-Specific Applicable Requirements

**Table IV-B
 S-6 & S-7 Boilers**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (12/5/07)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Heat Transfer Operations	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operations	Y	
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 Limitations	N	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	N	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9, Rule 7	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (7/30/08)		
9-7-301	Interim Emission Limits	N	
9-7-301.1	NOx limit – Gaseous Fuel	N	
9-7-301.2	NOx limit – Non-Gaseous Fuel	N	
9-7-301.4	CO limit	N	
9-7-307	Final Emission Limits	N	

IV. Source-Specific Applicable Requirements

**Table IV-B
 S-6 & S-7 Boilers**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-7-307.6	NOx and CO Limit	N	1/1/12
9-7-308	Compliance Schedule	N	
9-7-311	Insulation Requirements	N	
9-7-312	Stack Gas Temperature Limits	N	1/1/11
9-7-313	Tune-Up Requirements	N	
9-7-403	Initial Demonstration of Compliance	N	1/1/12
9-7-503	Records	N	
9-7-503.1	Documentation of Tune-Ups	N	
9-7-503.4	Source test records	N	
SIP Regulation 9, Rule 7	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (12/15/97)		
9-7-301	Emission Limits-Gaseous Fuel	Y	
9-7-301.1	NOx limit	Y	
9-7-301.2	CO limit	Y	
9-7-305	Natural Gas Curtailment-Non-Gaseous Fuel	Y	
9-7-305.1	NOx limit	Y	
9-7-305.2	CO limit	Y	
9-7-306	Equipment Testing Non-Gaseous Fuel	Y	
9-7-306.1	NOx limit	Y	
9-7-306.2	CO limit	Y	
9-7-306.3	Time limit	Y	
9-7-503	Records	Y	
9-7-503.2	Records of natural gas curtailment	Y	
9-7-503.3	Records of equipment testing	Y	
9-7-503.4	Source test records	Y	
BAAQMD Condition #21200			
part 10	Compliance source tests requirements (basis: BACT, Offsets, cumulative increase, Reg.9-7-600)	Y	
part 11	Records (basis: BACT, Offsets, cumulative increase)	Y	

IV. Source-Specific Applicable Requirements

**Table IV-C
S-9 Boiler**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (12/5/07)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Heat Transfer Operations	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operations	Y	
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 Limitations	N	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
BAAQMD Regulation 9, Rule 7	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (7/30/08)		
9-7-301	Emission Limits-Gaseous Fuel	N	
9-7-301.1	NOx limit	N	
9-7-301.4	CO limit	N	
9-7-307	Final Emission Limits	N	1/1/12
9-7-307.6	NOx and CO Limits	N	1/1/12
9-7-308	Compliance Schedule	N	

IV. Source-Specific Applicable Requirements

**Table IV-C
S-9 Boiler**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-7-311	Insulation Requirements	N	
9-7-312	Stack Gas Temperature Limits	N	1/1/11
9-7-313	Tune-Up Requirements	N	
9-7-403	Initial Demonstration of Compliance	N	1/1/12
9-7-503	Records	N	
9-7-503.1	Documentation of Tune-Ups	N	
9-7-503.4	Source test records	N	
SIP Regulation 9, Rule 7	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (12/15/97)		
9-7-301	Emission Limits-Gaseous Fuel	Y	
9-7-301.1	NOx limit	Y	
9-7-301.2	CO limit	Y	
9-7-503	Records	Y	
9-7-503.3	Records of equipment testing	Y	
9-7-503.4	Source test records	Y	
BAAQMD Condition #21200			
part 1	Operation limited to boiler firing only natural gas at a firing rate of 99.93 MM Btu/hr (basis: cumulative increase)	Y	
part 2	Boiler to operate with low NOx burner and flue gas recirculation system (basis: BACT)	Y	
part 3	Limit NOx emissions not to exceed 9 ppmv (basis: BACT)	Y	
part 4	Limit CO emissions not to exceed 50 ppmv (basis: BACT)	Y	
part 5	Limit natural gas fuel usage to not exceed 8,730,000 therms in 12 consecutive month period (basis: cumulative increase)	Y	
part 6	Ringelmann No. 1 Limitation (Reg. 6-1-301)	Y	
part 7	Allow for exceedances of NOx and CO emissions in part 3 and 4 during 3 hour startup periods and 2 hour shutdown periods (basis: Reg.2-1-403)	Y	
part 8	Define “startup” (basis: Reg.-2-1-403)	Y	
Part 9	Define “shutdown” (basis: Reg.2-1-403)	Y	

IV. Source-Specific Applicable Requirements

**Table IV-C
S-9 Boiler**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
part 10	Compliance source testing requirement (basis: Reg. 2-6-409.2.2, Reg. 2-1-403)	Y	
part 11	Recordkeeping (basis: Recordkeeping)	Y	

**Table IV-D
S-13 STANDBY GENERATOR DIESEL ENGINE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (12/5/07)		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-303.1	Internal Combustion Engine	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Heat Transfer Operations	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-303	Ringelmann Number 2 Limitation	Y	
6-303.1	Internal Combustion Engine	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operations	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	N	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	N	

IV. Source-Specific Applicable Requirements

Table IV-D
S-13 STANDBY GENERATOR DIESEL ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP			
Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9, Rule 8	Inorganic Gaseous Pollutants (7/25/07)		
9-8-110.5	Limited Exemption Emergency Standby Engines	N	
9-8-330	Emergency Standby Engines, Hours of Operation	N	
9-8-330.1	Unlimited hours for emergency use	N	
9-8-330.2	100 hours for reliability and maintenance	N	
9-8-330.3	50 hours for reliability and maintenance	N	1/1/12
9-8-530	Emergency standby engines, monitoring and recordkeeping	N	
9-8-502	Recordkeeping	N	
9-8-502.1	Monthly records of usage	N	
40 CFR Part 63 Subpart A	National Emissions Standards for Hazardous Air Pollutants for Source Categories, Subpart A – General Provisions		
63.1	General Applicability of the General Provisions	Y	
63.2	Definitions	Y	
63.3	Units and Abbreviations	Y	
63.4	Prohibited activities and circumvention	Y	
63.6(a)	Compliance with standards and maintenance requirements - Applicability	Y	
63.6(c)	Compliance dates for existing sources	Y	
63.6(f)(2)	Methods for determining compliance	Y	
63.6(f)(3)	Finding of compliance	Y	
63.6(g)	Use of an alternative nonopacity emission standard	Y	
63.6(i)	Compliance extension procedures and criteria	Y	
63.6(j)	Presidential compliance exemption	Y	
63.10(a)	Recordkeeping and reporting requirements, applicability and general information	Y	
63.10(b)(1)	Record retention	Y	
63.10(f)	Administrator waiver of recordkeeping or reporting requirements	Y	
63.12	State authority and delegations	Y	

IV. Source-Specific Applicable Requirements

Table IV-D
S-13 STANDBY GENERATOR DIESEL ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.13	Addresses of air pollution control agencies and EPA Regional Offices	Y	
63.14	Incorporation by reference	Y	
63.15	Availability of information and confidentiality	Y	
40 CFR Part 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)		
63.6585	Applicability	Y	
63.6585(a)	Applicable to stationary RICE	Y	
63.6585(c)	Applicable to area sources of Haps	Y	
63.6590(a)(1)(iii)	Affected source under stationary RICE located at an area source of HAP emissions, constructed before 6/12/06	Y	
63.6590(a)(1)(iii)	Affected source under stationary RICE located at an area source of HAP emissions, constructed before 6/12/06	Y	
63.6595(a)	Comply with applicable emission limitations and operating limitations by 5/3/13.	Y	5/3/13
63.6595(c)	Comply with applicable notification requirements in 63.6645 and 40 CFR Part 63, subpart A	Y	5/3/13
63.6603(a)	Comply with requirements of Table 2d, Part 4 (operating limitations of Tables 1b and 2b do not apply): 1. Change oil & filter every 500 hours of operation or annually, whichever comes first. Oil analysis program may be used to extend period. 2. Inspect all hoses and belts every 500 hours or annually, whichever comes first, and replace as necessary.	Y	5/3/13
63.6605	General Requirements 1. Must be in compliance with applicable emission limitations and operating limitations 2. Operate engine in a manner consistent with safety and good air pollution control practices to minimize emissions.	Y	5/3/13
63.6625(e)(3)	Maintain RICE and abatement controls according to manufacturer's instructions or develop own plan.	Y	5/3/13
63.6625(h)	Minimize idling, and minimize startup time to not exceed 30 minutes.	Y	5/3/13
63.6640(a)	Demonstrate compliance with the requirements of Table 2d according to work or management practices of Table 6, Part 9a.	Y	5/3/13

IV. Source-Specific Applicable Requirements

Table IV-D
S-13 STANDBY GENERATOR DIESEL ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6640(b)	Report deviations from the requirements of Table 2d.	Y	5/3/13
63.6640(e)	Report non-compliance with the any applicable requirement of Table 8.	Y	5/3/13
63.6640(f)	Comply with requirements of (f)(1)(i) through (iii) below	Y	5/3/13
63.6640(f)(1)(i)	No time limit when engine is used for emergencies	Y	5/3/13
63.6640(f)(1)(ii)	Operation of engine for maintenance checks and readiness testing limited to 100 hours per year	Y	5/3/13
63.6640(f)(1)(iii)	Operation of engine for non-emergency and not associated with maintenance checks and readiness testing is limited to 50 hours, which is counted towards the 100 hours per year maximum specified in 63.6640(f)(1)(ii)	Y	5/3/13
63.6645(a)(5)	The notification requirements of 63.6645(a) do not apply to this engine.	Y	5/3/13
63.6655	Record Keeping 1. Record hours of operation 2. Install non-resettable hour meter	Y	5/3/13
63.6660	Instructions for Records	Y	5/3/13
63.6670	Implementation and enforcement of Subpart ZZZZ	Y	5/3/13
CCR, Title 17, Section 93115	ATCM for Stationary Compression Ignition Engines	N	
93115.5	Fuel Requirements	N	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	N	
93115.6(b)	In-Use Emergency Standby Diesel-Fueled CI Engine (> 50 bhp) Operating Requirements and Emission Standards	N	
93115.10	Recordkeeping, Reporting and Monitoring Requirements	N	
93115.10(a)	Reporting	N	
93115.10(c)	Demonstration of Compliance with Emission Limits	N	
93115.10(e)(1)	Monitoring Equipment	N	
93115.10(g)	Reporting Requirements for Emergency Standby Engines	N	

IV. Source-Specific Applicable Requirements

Table IV-D
S-13 STANDBY GENERATOR DIESEL ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.11	ATCM for Stationary CI Engines – Compliance Schedule for Owners or Operators of Three or Fewer Engines (>50 bhp) Located within a District	N	
93115.11(a)	Compliance by 1/1/06 for engines complying by reducing hours of operation	N	
93115.12	Tiered Compliance Schedule	N	
93115.15	Severability	N	
BAAQMD Condition #22820			
part 1	Limit on Annual Hours of Operation (Basis: ATCM section 93115.6(b)(3)(A)(1)(a))	N	
part 2	Unlimited Emergency Use (Basis: ATCM section 93115.6(b)(3)(A)(1)(a))	N	
part 3	Hours of operation totalizing counter (Basis: ATCM section 93115.10(e)(1))	N	
part 4	Recordkeeping (Basis: 93115.10(g), Regulation 2-6-501)	N	
Part 5	Limitations on operation at or near school (basis: ATCM section 93115.6(a)(1))	N	

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 on a timely basis.

VI. PERMIT CONDITIONS

Condition #21200 for S-3, S-4, S-5, S-6, S-7, & S-9 Boilers

1. The owner/operator shall insure that S-9 Boiler is fired exclusively with natural gas at a firing rate not to exceed 99.93 MMBtu/hr. [Basis: BACT, Cumulative Increase]
2. The owner/operator shall operate S-9 Boiler with a low NOx burner and flue gas recirculation system. [Basis: BACT]
3. The owner/operator shall insure that S-9 Boiler emissions of nitrogen oxides (NOx) shall not exceed 9 ppmv (reference 3 percent O₂, dry), averaged over any rolling 3 hour period, when firing natural gas. [Basis: BACT]
4. The owner/operator shall insure S-9 Boiler emissions of carbon monoxide (CO) shall not exceed 50 ppmv (reference 3 percent O₂, dry) averaged over any rolling 3 hour period. [Basis: BACT]
5. The owner/operator shall insure the total usage of natural gas shall not exceed 8,730,000 therms for S-9 Boiler in any consecutive twelve (12) month period. [Basis: Cumulative Increase]
6. Visible particulate emissions from S-9 Boiler shall not exceed Ringelmann 1.0. [Basis: Regulation 6-301]
7. The limits specified in parts 3 and 4 shall not apply during startup periods not exceeding 3 hours and shutdown periods not exceeding 2 hours for source S-9. [Basis: Regulation 2-1-403]
8. "Startup" shall mean that period of time during which the piece of equipment in question is put into normal operation from an inactive status by following a prescribed series of separate steps or operations, not to exceed 3 hours. [Basis: Regulation 2-1-403]

VI. Permit Conditions

9. "Shutdown" shall mean that period of time during which the piece of equipment in question is taken out of service from a normal operating mode to an inactive status following a prescribed series of separate steps of operations, not to exceed 2 hours. [Basis: Regulation 2-1-403]
10. Source Testing: ~~For boilers S-3, S-4, S-5, S-6, S-7, S-9~~ The owner/operator shall conduct a source test at S-3, S-4, S-5, S-6, S-7, & S-9 shall be conducted at within one year of before the expiration issuance of the Title V permit and on an annual basis thereafter to verify compliance with the other parts of this condition Regulation 9, Rule 7, sections 301.1, 301.2, and 301.4 and District Regulations. ~~Additional source testing may be required at the discretion of the District to address or ascertain compliance with the requirements of this permit. The written test results of the source tests reports shall be provided to the District within sixty days after testing of the testing date. A The owner/operator shall submit a complete source test protocol shall be submitted to the District no later than at least 30 days prior to the testing date, and shall notification to notify the District of the testing date at least ten days prior to the actual date of testing test shall be provided so that a District observer may be present witness the test. The source test protocol shall comply with the measurements test methods of for NOx, CO, and stack gas oxygen content as set forth in Regulation 9-7-600 the District Manual of Procedures. Alternative test methods, and source testing scope, may also be used to address the source testing requirements of the permit if approved in advance by the District. (Basis: Regulation 9-7-600)2-6-409.2.2, Regulation 2-1-403)~~
11. To determine compliance with the above conditions, the Permit Holder shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including the following information:
- Monthly records of the quantity of natural gas (therms) and sulfur content at S-9.
 - Monthly records of the number and duration (hours) of shutdowns and startups.
 - Monthly records shall be totaled for each consecutive 12-month period.

All records shall be retained on site for ~~two~~ five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations. (basis: Recordkeeping)

Condition #22820

VI. Permit Conditions

For Source S-13 Standby Generator Diesel Engine

1. Operating for reliability-related activities is limited to 20 hours per year per engine.
[Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(1)(a)]
2. The owner or operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, state or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, state or Federal emission limits is not limited.
[Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(1)(a)]
3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.
[Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(e)(1)]
4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
 - a. Hours of operation for reliability-related activities (maintenance and testing).
 - b. Hours of operation for emission testing to show compliance with emission limits.
 - c. Hours of operation (emergency).
 - d. For each emergency, the nature of the emergency condition.
 - e. Fuel usage for each engine(s).[Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(g)]
5. At School and Near-School Operation:
If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply:

VI. Permit Conditions

The owner or operator shall not operate each stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:

- a. Whenever there is a school sponsored activity (if the engine is located on school grounds).
- b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session.

"School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property.

[Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(a)(1)]

VII. APPLICABLE 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 column indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, using the following codes: annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), hourly (H), 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.

This section is only a summary of the limits and monitoring requirements. In the case of a conflict with any requirement in Sections I-VI, the preceding sections take precedence over Section VII.

**Table VII-A
 S-3, S-4, & S-5 Boilers**

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Oxides of Nitrogen	BAAQMD 9-7-301.1	N		30 ppmv, dry @ 3% O ₂	BAAQMD Condition #21200, part 10	P/A	Source test
	BAAQMD 9-7-301.2	N		40 ppmv, dry @ 3% O ₂	BAAQMD Condition #21200, part 10	P/A	Source test
	BAAQMD 9-7-307.5	N	1/1/12	9 ppmv, dry @ 3% O ₂	BAAQMD 9-7-403, 9-7-506	P/A	Source Test
Oxides of Nitrogen	SIP 9-7-301.1	Y		30 ppmv, dry @ 3% O ₂		P/A	Source test
	SIP 9-7-303	Y		Weighted average of 9-7-301.1 and 9-7-302.1	SIP 9-7-501	C	Non-resettable fuel meters
	SIP 9-7-305.1	Y		150 ppmv, dry @ 3% O ₂		P/A	Source test

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII-A
 S-3, S-4, & S-5 Boilers**

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Oxides of Nitrogen	SIP 9-7-306.1	Y		150 ppmv, dry @ 3% O ₂		N	
Carbon Monoxide	BAAQMD 9-7-301.4	N		400 ppmv, dry @ 3% O ₂	BAAQMD Condition #21200, part 10	P/A	Source test
	BAAQMD 9-7-307.5	N	1/1/12	400 ppmv, dry @ 3% O ₂	BAAQMD 9-7-403, 9-7-506	P/A	Source Test
Carbon Monoxide	SIP 9-7-301.2	Y		400 ppmv, dry @ 3% O ₂		P/A	Source test
	SIP 9-7-305.2	Y		400 ppmv, dry @ 3% O ₂		P/A	Source test
	SIP 9-7-306.2	Y		400 ppmv, dry @ 3% O ₂		N	
Opacity	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N	
Opacity	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N	
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂		N	
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂		N	
SO ₂	SIP 9-1-302	Y		300 ppm (dry)		N	
	SIP 9-1-304	Y		Sulfur content of fuel <0.5% by weight		N	
SO ₂	BAAQMD 9-1-302	N		300 ppm (dry)		N	
	BAAQMD 9-1-304	N		Sulfur content of fuel <0.5% by weight		N	
Stack Gas Temperature	BAAQMD 9-7-312	N	1/1/11	150°F over saturated steam temperature		N	

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII-B
 S-6 & S-7 Boilers**

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Oxides of Nitrogen	BAAQMD 9-7-301.1	N		30 ppmv, dry @ 3% O ₂	BAAQMD Condition #21200, part 10	P/A	Source test
	BAAQMD 9-7-301.2	N		40 ppmv, dry @ 3% O ₂	BAAQMD Condition #21200, part 10	P/A	Source test
	BAAQMD 9-7-307.6	N	1/1/12	5 ppmv, dry @ 3% O ₂	BAAQMD 9-7-403, 9-7-506	P/A	Source Test
Oxides of Nitrogen	SIP 9-7-301.1	Y		30 ppmv, dry @ 3% O ₂		P/A	Source test
	SIP 9-7-303	Y		Weighted average of 9-7-301.1 and 9-7-302.1	SIP 9-7-501	C	Non-resettable fuel meters
	SIP 9-7-305.1	Y		150 ppmv, dry @ 3% O ₂		P/A	Source test
	SIP 9-7-306.1	Y		150 ppmv, dry @ 3% O ₂		N	
Carbon Monoxide	BAAQMD 9-7-301.4	N		400 ppmv, dry @ 3% O ₂	BAAQMD Condition #21200, part 10	P/A	Source test
	BAAQMD 9-7-307.6	N		400 ppmv, dry @ 3% O ₂	BAAQMD 9-7-403, 9-7-506	P/A	Source Test
Carbon Monoxide	SIP 9-7-301.2	Y		400 ppmv, dry @ 3% O ₂		P/A	Source test
	SIP 9-7-305.2	Y		400 ppmv, dry @ 3% O ₂		P/A	Source test
	SIP 9-7-306.2	Y		400 ppmv, dry @ 3% O ₂		N	

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII-B
 S-6 & S-7 Boilers**

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N	
Opacity	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N	
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂		N	
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂		N	
SO ₂	SIP 9-1-302	Y		300 ppm (dry)		N	
	SIP 9-1-304	Y		Sulfur content of fuel <0.5% by weight		N	
SO ₂	BAAQMD 9-1-302	N		300 ppm (dry)		N	
	BAAQMD 9-1-304	N		Sulfur content of fuel <0.5% by weight		N	
Stack Gas Temperature	BAAQMD 9-7-312	N	1/1/11	150°F over saturated steam temperature		N	

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII-C
S-9 Boiler**

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Oxides of Nitrogen	BAAQMD 9-7-301.1	N		30 ppmv, dry @ 3% O ₂	BAAQMD Condition #21200, part 10	P/A	Source Test
	BAAQMD 9-7-307.6	N	1/1/12	5 ppmv, dry @ 3% O ₂	BAAQMD 9-7-403, 9-7-506	P/A	Source Test
Oxides of Nitrogen	SIP 9-7-301.1	Y		30 ppmv, dry @ 3% O ₂		N	
	BAAQMD Condition #21200, part 3	Y		9 ppmv, dry @ 3% O ₂ , averaged over 3 hours	BAAQMD Condition #21200, part 9	P/A	Source Test
Carbon Monoxide	BAAQMD 9-7-301.2	N		400 ppmv, dry @ 3% O ₂	BAAQMD Condition #21200, part 10	N	
	BAAQMD 9-7-307.6	N	1/1/12	400 ppmv, dry @ 3% O ₂	BAAQMD 9-7-403, 9-7-506	P/A	Source Test
Carbon Monoxide	SIP 9-7-301.2	Y		400 ppmv, dry @ 3% O ₂	BAAQMD Condition #21200, part 10	N	
	BAAQMD Condition #21200, part 4	Y		50 ppmv, dry @ 3% O ₂ , averaged over 3 hours	BAAQMD Condition #21200, part 9	P/initial	Source Test
Opacity	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N	
Opacity	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N	
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂		N	

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII-C
 S-9 Boiler**

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂		N	
SO2	BAAQMD 9-1-302	N		300 ppm (dry)		N	
	BAAQMD 9-1-304	N		Sulfur content of fuel <0.5% by weight		N	
SO2	SIP 9-1-302	Y		300 ppm (dry)		N	
Heat Input Rate	BAAQMD Condition #21200, part 1	Y		99.93 MMBTU/hr	BAAQMD Condition #21200, part 11	P/M	Records
Fuel usage	BAAQMD Condition #21200, part 5	Y		8,730,000 therms per rolling 12 months	BAAQMD Condition #21200, part 11	P/M	Records
Stack Gas Temperature	BAAQMD 9-7-312	N	1/1/11	150°F over saturated steam temperature		N	

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-D
Applicable Limits and Compliance Monitoring Requirements
S-13 STANDBY GENERATOR DIESEL ENGINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-303.1	N		≥ Ringelmann No. 2 for no more than 3 minutes in any hour		N	
Opacity	SIP 6-303.1	Y		≥ Ringelmann No. 2 for no more than 3 minutes in any hour		N	
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂		N	
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂		N	
SO ₂	BAAQMD 9-1-301	N		GLC ¹ of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N	
	BAAQMD 9-1-304	N		Fuel sulfur content limit of 0.5% by weight		N	
SO ₂	SIP 9-1-301	Y		GLC ¹ of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N	
	SIP 9-1-304	Y		Fuel sulfur content limit of 0.5% by weight		N	
Hours of Operation	BAAQMD condition #22820, part 1			20 hours per year discretionary operation	BAAQMD condition #22820, part 3	C	Totalizing counter

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
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling; or USEPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD 6-310.3	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling; or USEPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD 6-311	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling or USEPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD 7-301	General Limit on Odorous Substances	Manual of Procedure4s, Volume IV, ST-12, Collection of Odorous Samples/BAAQMD Regulation 7-404
BAAQMD 8-5-117	Exemption, Low Vapor Pressure	Manual of Procedures, Volume III, Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks
BAAQMD 9-1-302	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
BAAQMD 9-1-304	Fuel Burning (Liquid and Solid Fuels)	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils.
BAAQMD 9-7-301.1	Performance Standard, NO _x , Gaseous Fuel	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-301.2	Performance Standard, CO, Gaseous Fuel	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 9-7-302.1	Performance Standard, NOx, Non-Gaseous Fuel	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-302.2	Performance Standard, CO, Non-Gaseous Fuel	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-303	Emission Limits - Gaseous and Non-Gaseous Fuel, NOx and CO (9/16/92)	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and Manual of Procedures, Volume IV, ST-6, and Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-305.1	Natural Gas Curtailment Performance Standard, NOx	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-305.2	Natural Gas Curtailment Performance Standard, CO	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-306.1	Equipment Testing - Non-Gaseous Fuel NOx Performance Standard	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-306.2	Equipment Testing - Non-Gaseous Fuel CO Performance Standard	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-403	Initial Compliance Demonstration (9/16/92)	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
SIP 12-4-301	Ringelmann 1 Limitations	Manual of Procedures, Volume I, Part 1, Evaluation of Visible Emissions
NSPS Subpart GG, 40 CFR 60.333	Standard for sulfur dioxide	ASTM D2880-71 for liquid fuels, and ASTM D1072-80, D3031-81, D4084-82, or D3246-81 for gaseous fuels

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
Permit Condition 21200 part 4	CO Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
Permit Condition 21200 part 3	NOx Limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling

IX. PERMIT SHIELD

Not applicable

X. Revision History

Application #12220

Initial Permit Issuance

XI. GLOSSARY

ACT

Federal Clean Air Act

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

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.

District

The Bay Area Air Quality Management District

EPA

The federal Environmental Protection Agency.

Excluded

Not subject to any District Regulations.

Federally Enforceable, FE

XI. Glossary

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.

FP

Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

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 40 CFR Part 63.

Major Facility

A facility with potential emissions of: (1) at least 100 tons per year of any regulated air pollutant, (2) at least 10 tons per year of any single hazardous air pollutant, and/or (3) at least 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity of hazardous air pollutants 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.

NAAQS

National Ambient Air Quality Standards

NESHAPS

National Emission Standards for Hazardous Air Pollutants. See in 40 CFR Part 61.

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 40 CFR Part 60 and District Regulation 10.

NSR

New Source Review. A federal program for preconstruction review and permitting of new

XI. Glossary

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 onsite contemporaneous emission reduction credits. Applies to emissions of POC, NO_x, PM₁₀, and SO₂.

Phase II Acid Rain Facility

A facility that generates electricity for sale through fossil-fuel combustion and is not exempted by 40 CFR 72 from 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 10 microns

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

Title V

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

VOC

Volatile Organic Compounds

XI. Glossary

Units of Measure:

bhp	=	brake-horsepower
btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m ²	=	square meter
min	=	minute
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
scfm	=	standard cubic feet per minute
yr	=	year