

# Bay Area Air Quality Management District

375 Beale Street, Suite 600  
San Francisco, CA 94105  
(415) 749-5000

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**Final**

## MAJOR FACILITY REVIEW PERMIT

Issued To:

**Energy Center San Francisco LLC  
Facility #B6151**

**Facility Address:**

460 Jessie Street  
San Francisco, CA 94103

**Mailing Address:**

14 Mint Plaza, Suite 200  
San Francisco, CA 94103

**Responsible Official**

Nicholas Joseph, Plant Manager  
(415) 644-9684

**Facility Contact**

Nicholas Joseph, Plant Manager  
(415) 644-9684

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**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**

Signed by Damian Breen for Jack P. Broadbent  
Jack P. Broadbent, Executive Officer/Air Pollution Control Officer

September 7, 2021  
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 12/6/17);

SIP Regulation 2, Rule 1 - Permits, General Requirements

(as approved by EPA through 8/1/16);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review

(as amended by the District Board on 12/6/17);

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration

(as approved by EPA through 8/1/16);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking

(as amended by the District Board on 12/6/17);

SIP Regulation 2, Rule 4 - Permits, Emissions Banking

(as approved by EPA through 12/4/17);

BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants

(as amended by the District Board on 12/7/16);

BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review

(as amended by the District Board on 12/6/17); 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 September 7, 2021 and expires on September 6, 2026. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than March 6, 2026, and no earlier than September 6, 2025. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after September 6, 2026.** If the permit renewal has not been issued by September 6, 2026, 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 denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3,

## I. Standard Conditions

§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 that must be maintained pursuant to this permit which the permittee considers 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)
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,

## I. Standard Conditions

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. Reports shall be for the following periods: February 1st through July 31st and August 1st through January 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 by e-mail to [compliance@baaqmd.gov](mailto:compliance@baaqmd.gov) or by postal mail to the following address:

Director of Compliance and Enforcement  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, CA 94105  
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 November 1st through October 31<sup>st</sup>. The certification shall be submitted by November 31<sup>st</sup> of each year. 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

## **I. Standard Conditions**

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 by e-mail to AEO\_R9@epa.gov or postal mail to the Environmental Protection Agency at the following address:

Director  
Enforcement Division, TRI & Air Section (ENF2-1)  
USEPA, Region 9  
75 Hawthorne Street  
San Francisco, CA 94105

(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, fuel oil)	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
S-21	Cogeneration Unit 1 (natural gas engine)	MAN	E2842E312	375 bhp
S-22	Cogeneration Unit 2 (natural gas engine)	MAN	E2842E312	375 bhp

## ii. Equipment List

**Table II B – Abatement Devices**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
7	Selective Catalytic Reduction System	S-7	BAAQMD Condition #25548 part 1	None	5 ppmv NO <sub>x</sub> @ 3% O <sub>2</sub> , dry for natural gas, 150 ppmv NO <sub>x</sub> @ 3% O <sub>2</sub> , dry for diesel oil
21	3-Way Catalyst	S-21	BAAQMD Condition #25730, part 2	None	56 ppmv CO @ 15% O <sub>2</sub> , dry
22	3-Way Catalyst	S-22	BAAQMD Condition #25730, part 3	None	56 ppmv CO @ 15% O <sub>2</sub> , dry
34	Selective Catalytic Reduction System	S-3, S-4	BAAQMD Condition #25353, part 1	None	9 ppmv NO <sub>x</sub> @ 3% O <sub>2</sub> , dry for natural gas, 150 ppmv NO <sub>x</sub> @ 3% O <sub>2</sub> , dry for diesel oil



### 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 (12/6/17)	N
SIP Regulation 2, Rule 1	General Requirements (8/1/16)	Y
BAAQMD 2-1-429	Federal Emissions Statement (12/21/04)	Y
BAAQMD Regulation 2, Rule 2	Permits, New Source Review (12/6/17)	N

### III. Generally Applicable Requirements

**Table III  
 Generally Applicable Requirements**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>
SIP Regulation 2, Rule 2	Permits, New Source Review (8/1/16)	Y
BAAQMD Regulation 2, Rule 3	Permits, Power Plants (12/19/79)	Y
BAAQMD Regulation 2, Rule 4	Permits, Emissions Banking (12/6/17)	N
SIP Regulation 2, Rule 4	Permits, Emissions Banking (12/4/17)	Y
BAAQMD Regulation 2, Rule 5	New Source Review of Toxic Air Contaminants (12/7/16)	N
BAAQMD Regulation 2, Rule 6	Permits, Major Facility Review (12/6/17)	N
SIP Regulation 2, Rule 6	Permits, Major Facility Review (6/23/95)	Y
BAAQMD Regulation 2, Rule 9	Permits, Interchangeable Emission Reduction Credits (6/15/05)	N
BAAQMD Regulation 3	Fees	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 (6/19/13)	N
SIP Regulation 5	Open Burning (9/4/98)	Y
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (8/1/18)	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 (7/1/09)	N
SIP Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (1/2/04)	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

### III. Generally Applicable Requirements

**Table III  
 Generally Applicable Requirements**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>
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
BAAQMD Regulation 11, Rule 18	Reduction of Risk from Air Toxic Emissions at Existing Facilities (11/15/17)	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 (4/13/05)	Y
Subpart F, 40 CFR 82.161	Recycling and Emissions Reductions – Technician Certification (4/13/05)	Y
Subpart F, 40 CFR 82.166	Recycling and Emissions Reductions – Reporting and Recordkeeping Requirements (4/13/05)	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 Boiler No. 3 & S-4 Boiler No. 4**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6, Rule 1</b>	<b>Particulate Matter, General Requirements (8/1/18)</b>		
6-1-114.1	Limited Exemption – TSP Emission Limits for Fuel Combustion	N	
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate Concentration Limits	N	
6-1-310.3	Heat Transfer Operations	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (9/4/98)</b>		
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 Boiler No. 3 & S-4 Boiler No. 4**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
6-310.3	Heat Transfer Operations	Y	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)</b>		
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	
<b>SIP Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99)</b>		
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	
<b>BAAQMD Regulation 9, Rule 7</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (5/4/11)</b>		
9-7-113	Limited Exemption – Natural Gas Curtailment and Testing	N	
9-7-307	Final Emission Limits	N	
9-7-307.5	NOx and CO Limit	N	
9-7-308	Compliance Schedule	N	
9-7-311	Insulation Requirements	N	
9-7-312	Stack Gas Temperature Limits	N	
9-7-403	Initial Demonstration of Compliance	N	
9-7-503	Records	N	
9-7-503.2	Natural Gas Curtailment Documentation	N	
9-7-503.3	Non-gaseous fuel usage records	N	
9-7-503.4	Source test records	N	
9-7-506	Periodic Testing	N	
<b>SIP Regulation 9, Rule 7</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (12/15/97)</b>		
9-7-301	Emission Limits-Gaseous Fuel	Y	
9-7-301.1	NOx limit	Y	

## IV. Source-Specific Applicable Requirements

**Table IV-A**  
**S-3 Boiler No. 3 & S-4 Boiler No. 4**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
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	
<b>BAAQMD Condition #21200</b>			
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	
<b>BAAQMD Condition #25353</b>			
part 1	Required abatement device (basis: Reg.9-7-307)	N	
part 2	Ammonia slip limit (basis: Reg. 2-5)	N	
part 3	Monitor requirements for NOx and CO (basis: Reg. 2-6-503 and 9-7-606)	N	
part 4	Source test requirements (basis: Reg. 9-7-403 and 9-7-506)	N	
part 5	Records (basis: Reg. 2-6-501 and 9-7-503)	N	

## IV. Source-Specific Applicable Requirements

**Table IV-B**  
**S-5 Boiler No. 5 & S-6 Boiler No. 6**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 6, Rule 1</b>	<b>Particulate Matter, General Requirements (8/1/18)</b>		
<b>6-1-114.1</b>	<b>Limited Exemption – TSP Emission Limits for Fuel Combustion</b>	N	
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate Concentration Limits	N	
6-1-310.3	Heat Transfer Operations	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (9/4/98)</b>		
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	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)</b>		
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	
<b>SIP Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99)</b>		
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	
<b>BAAQMD Regulation 9, Rule 7</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (5/4/11)</b>		
9-7-112	Limited Exemption , Low Fuel Usage – Section 9-7-307	N	
9-7-112.2	NOx and CO Emission Limits	N	
9-7-113	Limited Exemption – Natural Gas Curtailment and Testing	N	

#### IV. Source-Specific Applicable Requirements

**Table IV-B**  
**S-5 Boiler No. 5 & S-6 Boiler No. 6**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-7-308	Compliance Schedule	N	
9-7-403	Initial Demonstration of Compliance	N	
9-7-503	Records	N	
9-7-503.2	Natural Gas Curtailment Documentation	N	
9-7-503.3	Non-gaseous fuel usage records	N	
9-7-503.4	Source test records	N	
9-7-504	Low Fuel Usage – Monitoring and Records	N	
<b>SIP Regulation 9, Rule 7</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (12/15/97)</b>		
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	
<b>BAAQMD Condition #21200</b>			
part 10	Compliance source test 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-7 Boiler No. 7**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 6, Rule 1</b>	<b>Particulate Matter, General Requirements (8/1/18)</b>		
<b>6-1-114.1</b>	<b>Limited Exemption – TSP Emission Limits for Fuel Combustion</b>	N	
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate Concentration Limits	N	
6-1-310.3	Heat Transfer Operations	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (9/4/98)</b>		
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	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)</b>		
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	
<b>SIP Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99)</b>		
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	
<b>BAAQMD Regulation 9, Rule 7</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (5/4/11)</b>		
9-7-113	Limited Exemption – Natural Gas Curtailment and Testing	N	
9-7-307	Final Emission Limits	N	
9-7-307.6	NOx and CO Limit	N	

## IV. Source-Specific Applicable Requirements

**Table IV-C  
 S-7 Boiler No. 7**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-7-308	Compliance Schedule	N	
9-7-311	Insulation Requirements	N	
9-7-312	Stack Gas Temperature Limits	N	
9-7-403	Initial Demonstration of Compliance	N	
9-7-503	Records	N	
9-7-503.2	Natural Gas Curtailment Documentation	N	
9-7-503.3	Non-Gaseous Fuel Use records	N	
9-7-503.4	Source test records	N	
9-7-506	Periodic Testing	N	
<b>SIP Regulation 9, Rule 7</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (12/15/97)</b>		
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 #25548			
part 1	Required abatement device (basis: Reg.9-7-307)	N	
part 2	Ammonia slip limit (basis: Reg. 2-5)	N	
part 3	Monitor requirements for NOx and CO (basis: Reg. 2-6-503 and 9-7-606)	N	

## IV. Source-Specific Applicable Requirements

**Table IV-C  
 S-7 Boiler No. 7**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
part 4	Source test requirements (basis: Reg. 9-7-403 and 9-7-506)	N	
part 5	Records (basis: Reg. 2-6-501 and 9-7-503)	N	

**Table IV-D  
 S-9 Boiler No. 8 (Load-Following Unit)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 6, Rule 1</b>	<b>Particulate Matter, General Requirements (8/1/18)</b>		
<b>6-1-114.1</b>	<b>Limited Exemption – TSP Emission Limits for Fuel Combustion</b>	N	
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate Concentration Limits	N	
6-1-310.3	Heat Transfer Operations	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (9/4/98)</b>		
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	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)</b>		
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	

## IV. Source-Specific Applicable Requirements

**Table IV-D  
 S-9 Boiler No. 8 (Load-Following Unit)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>SIP Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99)</b>		
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	
<b>BAAQMD Regulation 9, Rule 7</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (5/4/11)</b>		
9-7-113	Limited Exemption – Natural Gas Curtailment and Testing	N	
9-7-307	Final Emission Limits	N	
9-7-307.4	NOx and CO Limit for load-following unit	N	
9-7-308	Compliance Schedule	N	
9-7-311	Insulation Requirements	N	
9-7-312	Stack Gas Temperature Limits	N	
9-7-403	Initial Demonstration of Compliance	N	
9-7-408	Designation of Load-Following Units	N	
9-7-503	Records	N	
9-7-503.2	Natural Gas Curtailment Documentation	N	
9-7-503.3	Non-Gaseous Fuel Use records	N	
9-7-503.4	Source test records	N	
9-7-506	Periodic Testing	N	
<b>SIP Regulation 9, Rule 7</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (12/15/97)</b>		
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	

## IV. Source-Specific Applicable Requirements

**Table IV-D  
 S-9 Boiler No. 8 (Load-Following Unit)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-7-306.2	CO limit	Y	
9-7-306.3	Time limit	Y	
9-7-503	Records	Y	
9-7-503.3	Records of equipment testing	Y	
9-7-503.4	Source test records	Y	
<b>BAAQMD Condition #21200</b>			
part 1	Operation limited to boiler firing only natural gas at a firing rate of 99.93 MM Btu/hr except during natural gas curtailment (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, 2 hour shutdown periods, load-following operation periods, and periods of natural gas curtailment (basis: Reg. 2-1-403)	Y	
part 8	NOx emission limit during load-following operation. (basis: Reg. 9-7-307.4)	N	
part 9	Define “startup” (basis: Reg. 2-1-403)	Y	
part 10	Define “shutdown” (basis: Reg. 2-1-403)	Y	
part 11	Operating hour limit using diesel fuel (basis: cum. Increase)	Y	
part 12	Operation using diesel fuel restrictions (basis: BACT)	Y	
part 13	NOx emission limit during natural gas curtailment (basis: BACT)	Y	
part 14	CO emission limit during natural gas curtailment (basis: BACT)	Y	
part 15	Diesel fuel sulfur content limit (basis: BACT)	Y	
part 16	Initial source test for using diesel fuel (Basis: Reg. 2-1-403)	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV-D**  
**S-9 Boiler No. 8 (Load-Following Unit)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
part 17	Compliance source testing requirement (basis: Reg. 2-6-409.2.2, Reg. 2-1-403)	Y	
part 18	Recordkeeping (basis: Recordkeeping)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6, Rule 1</b>	<b>Particulate Matter, General Requirements (8/1/18)</b>		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-303.1	Internal Combustion Engine	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate Concentration Limits	N	
6-1-310.3	Heat Transfer Operations	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (9/4/98)</b>		
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	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)</b>		
9-1-301	Limitations on Ground Level Concentrations	N	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	N	
<b>SIP Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)</b>		

## IV. Source-Specific Applicable Requirements

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

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
<b>BAAQMD Regulation 9, Rule 8</b>	<b>Inorganic Gaseous Pollutants – NOx and CO from Stationary Internal Combustion Engines (7/25/07)</b>		
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	
9-8-330.3	50 hours for reliability and maintenance	N	
9-8-530	Emergency standby engines, monitoring and recordkeeping	N	
9-8-502	Recordkeeping	N	
9-8-502.1	Monthly records of usage	N	
SIP Regulation 9, Rule 8	Inorganic Gaseous Pollutants (12/15/97)		
9-8-101	Exclusion: Emergency Standby Engines	Y	
<b>40 CFR Part 63 Subpart A</b>	<b>National Emissions Standards for Hazardous Air Pollutants for Source Categories, Subpart A – General Provisions</b>		
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	
63.13	Addresses of air pollution control agencies and EPA Regional Offices	Y	

## IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.14	Incorporation by reference	Y	
63.15	Availability of information and confidentiality	Y	
<b>40 CFR Part 63 Subpart ZZZZ</b>	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	
63.6595(c)	Comply with applicable notification requirements in 63.6645 and 40 CFR Part 63, subpart A	Y	
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	
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	
63.6625(e)(3)	Maintain RICE and abatement controls according to manufacturer's instructions or develop own plan.	Y	
63.6625(h)	Minimize idling, and minimize startup time to not exceed 30 minutes.	Y	
63.6640(a)	Demonstrate compliance with the requirements of Table 2d according to work or management practices of Table 6, Part 9a.	Y	
63.6640(b)	Report deviations from the requirements of Table 2d.	Y	
63.6640(e)	Report non-compliance with the any applicable requirement of Table 8.	Y	
63.6640(f)	Comply with requirements of (f)(1)(i) through (iii) below	Y	
63.6640(f)(1)(i)	No time limit when engine is used for emergencies	Y	



#### IV. Source-Specific Applicable Requirements

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

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.6640(f)(1)(ii)	Operation of engine for maintenance checks and readiness testing limited to 100 hours per year	Y	
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	
63.6645(a)(5)	The notification requirements of 63.6645(a) do not apply to this engine.	Y	
63.6655	Record Keeping 1. Record hours of operation 2. Install non-resettable hour meter	Y	
63.6660	Instructions for Records	Y	
63.6670	Implementation and enforcement of Subpart ZZZZ	Y	
<b>CCR, Title 17, Section 93115</b>	<b>ATCM for Stationary Compression Ignition Engines</b>	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	
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	

#### IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Condition #22820</b>			
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	

**Table IV-F**  
**S-21 AND S-22 COGENERATION UNITS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6, Rule 1</b>	<b>Particulate Matter, General Requirements (12/5/07)</b>		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-303.1	Internal Combustion Engine	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate Concentration Limits	N	
6-1-310.3	Heat Transfer Operations	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (9/4/98)</b>		
6-303	Ringelmann Number 2 Limitation	Y	
6-303.1	Internal Combustion Engine	Y	
6-305	Visible Particles	Y	

## IV. Source-Specific Applicable Requirements

**Table IV-F**  
**S-21 AND S-22 COGENERATION UNITS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operations	Y	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)</b>		
9-1-301	Limitations on Ground Level Concentrations	N	
9-1-302	General Emission Limitations	N	
<b>SIP Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)</b>		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
<b>BAAQMD Regulation 9, Rule 8</b>	<b>Inorganic Gaseous Pollutants – NOx and CO from Stationary Internal Combustion Engines (7/25/07)</b>		
9-8-301	Emission Limits: Spark-Ignited Engines Powered by Fossil Derived Fuels	N	
9-8-301.1	NOx standard for Rich-Burn Engines	N	
9-8-301.3	CO standard	N	
9-8-502	Recordkeeping	N	
9-8-502.3	Records of the compliance demonstration	N	
9-8-503	Quarterly Demonstration of Compliance	N	
<b>SIP Regulation 9, Rule 8</b>	<b>Inorganic Gaseous Pollutants – NOx and CO from Stationary Internal Combustion Engines (1/20/1993)</b>		
9-8-301	Emission Limits: Fossil Derived Fuel Gas	Y	
9-8-301.1	NOx standard for Rich-Burn Engines	Y	
9-8-301.3	CO standard	Y	
9-8-502	Recordkeeping	Y	
<b>40 CFR 60 Subpart A</b>	<b>Standards of Performance for New Stationary Sources (1/28/09) General Provisions</b>		
60.7	Notification and Recordkeeping	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11 (a)	Compliance with standards and maintenance requirements	Y	
60.11 (d)	Minimizing emissions	Y	

## IV. Source-Specific Applicable Requirements

**Table IV-F**  
**S-21 AND S-22 COGENERATION UNITS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.12	Circumvention	Y	
60.19	General notification and reporting requirements	Y	
<b>40 CFR 60 Subpart JJJJ</b>	<b>Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (1/18/08)</b>		
60.4230 (a) (4) (iii)	Applicable to SI ICE <500 HP manufactured on or after 7/1/2008	Y	
60.4233 (e)	Comply with Table 1 NO <sub>x</sub> , CO, and VOC emission standards for SI ICE >= 100 HP	Y	
60.4243 (b) (2)	Demonstrate compliance according to the requirements specified in 60.4244 and 60.4243(b)(2)(i) for non-certified engine < 500 HP.	Y	
60.4243 (b) (2) (i)	For engine < 500 HP, keep a maintenance plan and records, maintain and operating with good air pollution control practice for minimizing emissions, and an initial performance test.	Y	
60.4245(a)	Notification, reporting and recordkeeping requirements	Y	
60.4245 (d)	Submit each performance test within 60 days after test	Y	
<b>40 CFR Part 63 Subpart ZZZZ</b>	<b>National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE) (4/1/2013)</b>		
63.6590 (c) (1)	Affected source, located at an area source of HAP emissions and subject to 40 CFR 60, meets the requirements of Subpart ZZZZ by meeting 40 CFR 60 Subpart JJJJ.	Y	
<b>BAAQMD Condition #25730</b>			
part 1	Fire exclusively Natural Gas (Basis: Cumulative Increase)	Y	
part 2	S-21 Emissions must be abated by A-21, 3-Way Catalyst (Basis: Cumulative Increase)	Y	
part 3	S-22 Emissions must be abated by A-22, 3-Way Catalyst (Basis: Cumulative Increase)	Y	
part 4	NO <sub>x</sub> and CO emission limits for S-21 (Basis: BACT)	Y	
part 5	NO <sub>x</sub> and CO emission limits for S-22 (Basis: BACT)	Y	
part 6	Monitoring requirements (Basis: BACT, Cumulative Increase, Regulation 9-8-503)	Y	
part 7	Initial source test requirement (Basis: Regulation 2-1-403, 40 CFR 60.4243(b)(2)(i))	Y	
part 8	Recordkeeping requirements	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 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 except during natural gas curtailment. [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 O<sub>2</sub>, 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 O<sub>2</sub>, 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, shutdown periods not exceeding 2 hours, load-following operation periods, and periods of natural gas curtailment for source S-9. [Basis: Regulation 2-1-403]
8. During load-following operation, the owner/operator shall insure that S-9 Boiler emissions of nitrogen oxides (NOx) shall not exceed 15 ppmv (reference 3 percent O<sub>2</sub>, dry), when firing natural gas. [Basis: Regulation 9-7-307.4]

## VI. Permit Conditions

9. "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]
10. "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]
11. The owner/operator shall not operate S-9 with diesel fuel for more than 216 hours in any consecutive 12-month period. [Basis: Cumulative Increase]
12. The owner/operator shall not operate S-9 with diesel fuel except during natural gas curtailment, oil-burn readiness testing, or state, federal, or local agency-required performance testing. [Basis: BACT]
13. During natural gas curtailment, the owner/operator shall insure that S-9 Boiler emissions of nitrogen oxides (NO<sub>x</sub>) shall not exceed 80 ppmv (reference 3 percent O<sub>2</sub>, dry), when firing diesel. [Basis: BACT]
14. During natural gas curtailment, the owner/operator shall insure that S-9 Boiler emissions of carbon monoxide (CO) shall not exceed 100 ppmv (reference 3 percent O<sub>2</sub>, dry), when firing diesel. [Basis: BACT]
15. The owner/operator shall not burn diesel fuel with sulfur content greater than 0.05 weight percent at S-9. [Basis: BACT]
16. Deleted (Initial source test for diesel oil burning gun completed on May 7, 2019).
17. Source Testing: For boilers S-3, S-4, S-5, S-6, S-7, and S-9, a source test shall be conducted at one year before the expiration of the Title V permit to verify compliance with the other parts of this condition 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 shall be provided to the District within sixty days after testing. The owner/operator shall submit a source test protocol to the District at least 30 days prior to the testing date, and shall notify the District of the testing date at least ten days prior to the test so that a District observer may witness the test. The source test protocol shall comply with the test methods for NO<sub>x</sub>, CO, and stack gas oxygen content set forth in Regulation 9-7-600. 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)

## VI. Permit Conditions

18. 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 load-following operations of S-9, shutdowns and startups.
  - Monthly operating hours using diesel fuel, and the hours of equipment testing using diesel fuel at S-9.d. Monthly records shall be totaled for each consecutive 12-month period.

All records shall be retained on site for 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**

#### **For Source S-13 Standby Generator Diesel Engine**

- 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)]
- 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)]
- 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)]
- 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

## VI. Permit Conditions

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:

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)]

### **Condition #25353 for Sources S-3 and S-4, Boilers**

In addition to the requirements in BAAQMD Regulation 9 Rule 7, the owner/operator shall comply with the following:

1. The owner/operator shall abate NO<sub>x</sub> emissions from S-3 and S-4, Boilers, with the properly operated and properly maintained A-34, Selective Catalytic Reduction System.

(Basis: BAAQMD Regulation 9-7-307)



## VI. Permit Conditions

2. The owner/operator shall meet the follow requirement for S-3 and S-4 at all times: Ammonia (NH<sub>3</sub>) emissions at the outlet of A-34 shall not exceed 10 ppmv, dry at 15% oxygen and averaged over any rolling 3-hour period.  
(Basis: BAAQMD Regulation 2-5 [Toxics] for NH<sub>3</sub>)

3. When S-3 or S-4 is in operation, the owner/operator shall monitor and record the nitrogen oxide concentration in ppmv, carbon monoxide concentration in ppmv, and the oxygen content in percent at the outlet of A-34 at least once per week using a portable analyzer in accordance with U.S. EPA Method CTM-030. The owner/operator may propose for District review, based on actual measurements taken at the site during operation of the sources, that the monitoring schedule be changed based on the data demonstrating continuous compliance. Written approval by the District's Engineering Division must be received by the owner/operator prior to a change to the monitoring schedule.  
(Basis: BAAQMD Regulation 2-6-503 and 9-7-606)

4. The owner/operator shall conduct a district-approved source test within 60 days of startup of A-34 and on an annual basis thereafter to verify compliance with Part 2 and all applicable NO<sub>x</sub> and CO standards in BAAQMD Regulation 9 Rule 7. The owner/operator shall submit a source test protocol to the District at least 30 days prior to the testing date, and shall notify the District of the testing date at least ten days prior to the test so that a District observer may witness the test. The source test protocol shall comply with the test methods for NO<sub>x</sub>, CO, and stack gas oxygen content set forth in Regulation 9-7-600. 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. The source test reports shall be provided to the District within 30 days of the testing date.  
(Basis: BAAQMD Regulation 9-7-403 and 9-7-506)

5. To verify compliance with above parts, the owner/operator shall maintain all records and reports on site for a minimum of 5 years. These records shall include but are not limited to:

- Portable analyzer monitoring records on a weekly basis.
- For each boiler, date and duration of each startup and shutdown periods.

The owner/operator shall make all records and reports available to District staff upon request.  
(Basis: BAAQMD Regulation 2-6-501 and Regulation 9-7-503)

**Condition #25548**  
**For Source S-7, Boiler**

## VI. Permit Conditions

In addition to the requirements in BAAQMD Regulation 9 Rule 7, the owner/operator shall comply with the following:

1. The owner/operator shall abate NO<sub>x</sub> emissions from S-7, Boiler, with the properly operated and properly maintained A-7, Selective Catalytic Reduction System.  
(Basis: BAAQMD Regulation 9-7-307)
2. The owner/operator shall meet the following requirement for S-7 at all times: Ammonia (NH<sub>3</sub>) emissions at the outlet of A-7 shall not exceed 10 ppmv, dry at 15% oxygen and averaged over any rolling 3-hour period.  
(Basis: BAAQMD Regulation 2-5 [Toxics] for NH<sub>3</sub>)
3. When S-7 is in operation, the owner/operator shall monitor and record the nitrogen oxide concentration in ppmv, carbon monoxide concentration in ppmv, and the oxygen content in percent at the outlet of A-7 at least once per week using a portable analyzer in accordance with U.S. EPA Method CTM-030. The owner/operator may propose for District review, based on actual measurements taken at the site during operation of the sources, that the monitoring schedule be changed based on the data demonstrating continuous compliance. Written approval by the District's Engineering Division must be received by the owner/operator prior to a change to the monitoring schedule.  
(Basis: BAAQMD Regulation 2-6-503 and 9-7-606)
4. The owner/operator shall conduct a district-approved source test on an annual basis thereafter to verify compliance with Part 2 and all applicable NO<sub>x</sub> and CO standards in BAAQMD Regulation 9 Rule 7. The owner/operator shall submit a source test protocol to the District at least 30 days prior to the testing date, and shall notify the District of the testing date at least ten days prior to the test so that a District observer may witness the test. The source test protocol shall comply with the test methods for NO<sub>x</sub>, CO, and stack gas oxygen content set forth in Regulation 9-7-600. 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. The source test reports shall be provided to the District within 30 days of the testing date.  
(Basis: BAAQMD Regulation 9-7-403 and 9-7-506)
5. To verify compliance with above parts, the owner/operator shall maintain all records and reports on site for a minimum of 5 years. These records shall include but are not limited to:
  - a. Portable analyzer monitoring records on a weekly basis.
  - b. For each boiler, date and duration of each startup and shutdown periods.The owner/operator shall make all records and reports available to District staff upon request.  
(Basis: BAAQMD Regulation 2-6-501 and Regulation 9-7-503)

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### Condition #25730

#### For Sources S-21 and S-22, Natural Gas Cogeneration Units

1. The owner/operator shall fire natural gas exclusively at each engine. [Basis: Cumulative Increase]
2. The owner/operator shall not operate S-21, Natural Gas Cogeneration Unit, unless emissions from S-21 are abated by the properly maintained A-21, 3-Way Catalyst. [Basis: Cumulative Increase]
3. The owner/operator shall not operate S-22, Natural Gas Cogeneration Unit, unless emissions from S-22 are abated by the properly maintained A-22, 3-Way Catalyst. [Basis: Cumulative Increase]
4. The owner/operator shall ensure that emissions from S-21 meet all of the following limits:
  - (a) NOx: 0.15 g/bhp-hr or 9 ppmv at 15% oxygen dry basis [Basis: Cumulative Increase].
  - (b) CO: 0.60 g/bhp-hr or 56 ppmv at 15% oxygen dry basis [Basis: BACT].
5. The owner/operator shall ensure that emissions from S-22 meet all of the following limits:
  - (a) NOx: 0.15 g/bhp-hr or 9 ppmv at 15% oxygen dry basis [Basis: Cumulative Increase].
  - (b) CO: 0.60 g/bhp-hr or 56 ppmv at 15% oxygen dry basis [Basis: BACT].
6. The owner/operator shall monitor the NOx and CO emissions at each engine at least once during each calendar quarter, in which a source test is not performed, using a portable analyzer in according to the District Regulation 9-8-503. [Basis: BACT; Cumulative Increase; Regulation 9-8-503]
7. Initial Source Test Condition Deleted (Initial source test was performed on November 6, 2015).
8. The Owner/Operator shall maintain the following records in a District-approved log for at least 24 months from the date of entry. 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) Each calendar quarter monitoring results for NOx and CO emissions to demonstrate compliance with emission limits.
  - (b) Fuel usage for engine.
  - (c) Records of maintenance conducted

## **VI. Permit Conditions**

(d) Source test reports  
[Basis: Recordkeeping]

## 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 Boiler No. 3 & S-4 Boiler No. 4**

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 9-7-307.5	N		9 ppmv, dry @ 3% O <sub>2</sub>	BAAQMD 9-7-403, 9-7-506 Condition 25353, part 4	P/A	Source Test
	SIP 9-7-301.1	Y		30 ppmv, dry @ 3% O <sub>2</sub>		P/A	Source test
	SIP 9-7-305.1	Y		150 ppmv, dry @ 3% O <sub>2</sub>		P/A	Source test
	SIP 9-7-306.1	Y		150 ppmv, dry @ 3% O <sub>2</sub>		N	
Carbon Monoxide	BAAQMD 9-7-307.5	N		400 ppmv, dry @ 3% O <sub>2</sub>	BAAQMD 9-7-403, 9-7-506 Condition 25353, part 4	P/A	Source Test
	SIP 9-7-301.2	Y		400 ppmv, dry @ 3% O <sub>2</sub>		P/A	Source test

## VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII-A**  
**S-3 Boiler No. 3 & S-4 Boiler No. 4**

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	SIP 9-7-305.2	Y		400 ppmv, dry @ 3% O <sub>2</sub>		P/A	Source test
	SIP 9-7-306.2	Y		400 ppmv, dry @ 3% O <sub>2</sub>		N	
Opacity	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N	
	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N	
TSP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O <sub>2</sub>		N	
	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>		N	
SO <sub>2</sub>	SIP 9-1-302	Y		300 ppm (dry)		N	
	SIP 9-1-304	Y		Sulfur content of fuel <0.5% by weight		N	
	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		150°F over saturated steam temperature		N	
NH <sub>3</sub>	BAAQMD Condition #25353, part 2	N		10 ppmv, dry @ 15% O <sub>2</sub>	BAAQMD Condition #25353, part 4	P/A	Source Test

**Table VII-B**  
**S-5 Boiler No. 5 & S-6 Boiler No. 6**

## VII. Applicable Emission Limits & Compliance Monitoring Requirements

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 9-7-112.2	N		30 ppmv, dry @ 3% O <sub>2</sub>	BAAQMD Condition #21200, part 10	P/A	Source Test
	SIP 9-7-301.1	Y		30 ppmv, dry @ 3% O <sub>2</sub>		N	
	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
Carbon Monoxide	SIP 9-7-305.1	Y		150 ppmv, dry @ 3% O <sub>2</sub>		N	
	SIP 9-7-306.1	Y		150 ppmv, dry @ 3% O <sub>2</sub>		N	
	BAAQMD 9-7-112.2	N		400 ppmv, dry @ 3% O <sub>2</sub>	BAAQMD Condition #21200, part 10	P/A	Source test
	SIP 9-7-301.2	Y		400 ppmv, dry @ 3% O <sub>2</sub>		N	
	SIP 9-7-305.2	Y		400 ppmv, dry @ 3% O <sub>2</sub>		N	
	SIP 9-7-306.2	Y		400 ppmv, dry @ 3% O <sub>2</sub>		N	
Opacity	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N	
	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N	
TSP	BAAQMD 6-1-310.1	N		0.15 grain/dscf @ 6% O <sub>2</sub>		N	
	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>		N	
SO <sub>2</sub>	SIP 9-1-302	Y		300 ppm (dry)		N	
	SIP 9-1-304	Y		Sulfur content of fuel <0.5% by weight		N	
	BAAQMD 9-1-302	N		300 ppm (dry)		N	

## VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII-B**  
**S-5 Boiler No. 5 & S-6 Boiler No. 6**

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Sulfur Content	BAAQMD 9-1-304	N		Sulfur content of fuel <0.5% by weight		N	
Stack Gas Temperature	BAAQMD 9-7-312	N		150°F over saturated steam temperature		N	

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

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 9-7-307.6	N		5 ppmv, dry @ 3% O <sub>2</sub>	BAAQMD 9-7-403, 9-7-506. Condition #25548, part 3 and 4	P/A/W	Annual Source Test; Weekly Portable Analyzer.
	SIP 9-7-301.1	Y		30 ppmv, dry @ 3% O <sub>2</sub>		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 <sub>2</sub>		P/A	Source test
	SIP 9-7-306.1	Y		150 ppmv, dry @ 3% O <sub>2</sub>		N	
Carbon Monoxide	BAAQMD 9-7-307.6	N		400 ppmv, dry @ 3% O <sub>2</sub>	BAAQMD 9-7-403, 9-7-506	P/A	Source Test
	SIP 9-7-301.2	Y		400 ppmv, dry @ 3% O <sub>2</sub>		P/A	Source test
	SIP 9-7-305.2	Y		400 ppmv, dry @ 3% O <sub>2</sub>		P/A	Source test



## VII. Applicable Emission Limits & Compliance Monitoring Requirements

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

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	SIP 9-7-306.2	Y		400 ppmv, dry @ 3% O <sub>2</sub>		N	
Opacity	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N	
	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N	
TSP	BAAQMD 6-1-310.1	N		0.15 grain/dscf @ 6% O <sub>2</sub>		N	
	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>		N	
SO <sub>2</sub>	SIP 9-1-302	Y		300 ppm (dry)		N	
	SIP 9-1-304	Y		Sulfur content of fuel <0.5% by weight		N	
	BAAQMD 9-1-302	N		300 ppm (dry)		N	
Fuel Sulfur Content	BAAQMD 9-1-304	N		Sulfur content of fuel <0.5% by weight		N	
Stack Gas Temperature	BAAQMD 9-7-312	N		150°F over saturated steam temperature		N	
NH <sub>3</sub>	BAAQMD Condition #25548, part 2	N		10 ppmv, dry @ 15% O <sub>2</sub>	BAAQMD Condition #25548, part 4	P/A	Source Test

**Table VII-D  
 S-9 Boiler No. 8 (load-following)**

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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## VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII-D  
 S-9 Boiler No. 8 (load-following)**

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 9-7-307.4 Condition #21200, part 8	N		15 ppmv, dry @ 3% O <sub>2</sub> during load-following	BAAQMD 9-7-403, 9-7-506 Condition #21200, part 17	P/A	Source Test
	SIP 9-7-301.1	Y		30 ppmv, dry @ 3% O <sub>2</sub>		N	
	BAAQMD Condition #21200, part 3	Y		9 ppmv, dry @ 3% O <sub>2</sub> , averaged over 3 hours	BAAQMD Condition #21200, part 17	P/A	Source Test
	BAAQMD Condition #21200, part 13	N		80 ppmv, dry @ 3% O <sub>2</sub> , when firing diesel		N	
Carbon Monoxide	BAAQMD 9-7-307.4	N		400 ppmv, dry @ 3% O <sub>2</sub>	BAAQMD 9-7-403, 9-7-506 Condition 21200, part 17	P/A	Source Test
	SIP 9-7-301.2	Y		400 ppmv, dry @ 3% O <sub>2</sub>		N	
	BAAQMD Condition #21200, part 4	Y		50 ppmv, dry @ 3% O <sub>2</sub> , 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	
	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N	
TSP	BAAQMD 6-1-310.1	N		0.15 grain/dscf @ 6% O <sub>2</sub>		N	

## VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII-D**  
**S-9 Boiler No. 8 (load-following)**

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>		N	
SO <sub>2</sub>	BAAQMD 9-1-302	N		300 ppm (dry)		N	
	BAAQMD 9-1-304	N		Sulfur content of fuel <0.5% by weight		N	
	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		150°F over saturated steam temperature		N	

## VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII-E**  
**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	
	SIP 6-303.1	Y		≥ Ringelmann No. 2 for no more than 3 minutes in any hour		N	
TSP	BAAQMD 6-1-310.1	N		0.15 grain/dscf @ 6% O <sub>2</sub>		N	
	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>		N	
SO <sub>2</sub>	BAAQMD 9-1-301	N		GLC <sup>1</sup> 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	
	SIP 9-1-301	Y		GLC <sup>1</sup> 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

## VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII-F**  
**S-21 AND 22 COGENERATION UNITS**

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 9-8-301.1	N		25 ppmv, dry @ 15% O <sub>2</sub>	BAAQMD Condition #25730, part 6	P/Q	Portable Analyzer or Source Test
	SIP 9-8-301.1	Y		140 ppmv, dry @ 3% O <sub>2</sub>		N	
	40 CFR 60 Subpart JJJ Table 1	Y		1.0 g/HP-hr or 82 ppmvd at 15% O <sub>2</sub>		N	
	BAAQMD Condition #25730, part 4(a) or 5(a)	Y		9 ppmv, dry @ 15% O <sub>2</sub>	BAAQMD Condition #25730, part 6	P/Q	Portable Analyzer or Source Test
Carbon Monoxide	BAAQMD 9-8-301.3	N		2000 ppmv, dry @ 15% O <sub>2</sub>	BAAQMD Condition #25730, part 6	P/Q	Portable Analyzer or Source Test
	SIP 9-8-301.3	Y		2000 ppmv, dry @ 3% O <sub>2</sub>		N	
	40 CFR 60 Subpart JJJ Table 1	Y		2.0 g/HP-hr or 270 ppmvd at 15% O <sub>2</sub>		N	
	BAAQMD Condition #25730, part 4(b) or 5(b)	Y		56 ppmv, dry @ 15% O <sub>2</sub>	BAAQMD Condition #25730, part 6	P/Q	Portable Analyzer or Source Test
VOC	40 CFR 60 Subpart JJJ Table 1	Y		0.7 g/HP-hr or 60 ppmvd at 15% O <sub>2</sub>		N	
Opacity	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N	

## VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII-F**  
**S-21 AND 22 COGENERATION UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N	
TSP	BAAQMD 6-1-310.1	N		0.15 grain/dscf @ 6% O <sub>2</sub>		N	
	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>		N	
SO <sub>2</sub>	BAAQMD 9-1-302	N		300 ppm (dry)		N	
	BAAQMD 9-1-304	N		Sulfur content of fuel <0.5% by weight		N	
	SIP 9-1-302	Y		300 ppm (dry)		N	
	SIP 9-1-304	Y		Sulfur content of fuel <0.5% by weight		N	

## 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**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD 6-1-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-1-310	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 6-1-310.3	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 6-1-311	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, NOx, 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**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
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
BAAQMD 9-8-301.1	NOx Emission Limit for Rich-Burn Spark-Ignited Engines Powered by Fossil Derived Fuels	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling
BAAQMD 9-8-301.3	CO Emission Limit for Spark-Ignited Engines Powered by Fossil Derived Fuels	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



**VIII. Test Methods**

**Table VIII  
 Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
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
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**

Initial Permit Issuance (Application #12220) August 13, 2012

Title V Permit Renewal (Application #28452) September 7, 2021

- Minor revisions in Application 26098;
- Business name change;
- Physical address correction.

## **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**

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.

## **XI. Glossary**

### **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<sub>x</sub>**

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 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

## **XI. Glossary**

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<sub>x</sub>, PM<sub>10</sub>, and SO<sub>2</sub>.

### **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

### **PM<sub>10</sub>**

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.

### **SO<sub>2</sub>**

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 <sup>2</sup>	=	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