

Bay Area Air Quality Management District

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

Proposed

MAJOR FACILITY REVIEW PERMIT

Issued To:

**San Francisco General Hospital
Facility #A3974**

Facility Address:

1001 Potrero Avenue
San Francisco, CA 94110

Mailing Address:

1001 Potrero Avenue, Bldg 2, Room 105
San Francisco, CA 94110

Responsible Official

Greg Chase,
Chief Engineer
(415) 206-8521

Facility Contact

Greg Chase,
Chief Engineer
(415) 206-8521

Type of Facility: Publicly Owned Hospital

Primary SIC: 8062

Product: Hospital & Health Services

BAAQMD Engineering

Division Contact:

Catherine S. Fortney, P.E.

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 4/28/12);

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 12/19/12);

SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 1/26/99);

BAAQMD Regulation 2, Rule 5 – Permits, New Source Review of Toxic Air Contaminants
(as amended by the District Board on 1/6/10);

BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 4/16/03);

SIP Regulation 2, Rule 6 – Permits, Major Facility Review
(as approved by EPA through 6/23/95); and

BAAQMD Regulation 2, Rule 9 –Interchangeable Emission Reduction Credits
(as amended by the District Board on 6/15/05).

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

1. This Major Facility Review Permit is issued on [issuance date] and will expire on [5 years after issuance date]. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than [6 months before expiration date] and no earlier than [one year before expiration date]. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after [expiration date].** If the permit renewal has not been issued by [expiration date], 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, §4.11)

I. Standard Conditions

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 re-issuance, 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 that 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. (Regulation 2-6-409.20, 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, contractors, or subcontractors. (Regulation 2-6-307)

I. Standard Conditions

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, 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. Monitoring reports shall be prepared for the following periods: July 1st through December 31st and January 1st through June 30th of each year, 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 reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

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

(Regulation 2-6-502, 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 [issuance month 1st through prior month 30th]. The certification shall be submitted by [issuance month 30th] 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 certification should be directed to

I. Standard Conditions

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. (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

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

A. Permitted Source List

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

**Table II – A
 Permitted Sources**

S-#	Description	Make or Type	Model	Capacity
S-5	Boiler #1, fired on natural gas or diesel oil (during readiness testing or natural gas curtailment only)	Keystone, watertube boiler	18M A-Type	136.2 E6 BTU/hour
S-6	Boiler #2, fired on natural gas or diesel oil (during readiness testing or natural gas curtailment only)	Keystone, watertube boiler	18M A-Type	136.2 E6 BTU/hour
S-7	Emergency Standby Diesel Engine and Generator Set	Caterpillar	3516C, 4210 in ³ displacement	2,937 BHP, 139 gallons/hour of diesel
S-8	Emergency Standby Diesel Engine and Generator Set	Caterpillar	3516C, 4210 in ³ displacement	2,937 BHP, 139 gallons/hour of diesel
S-9	Emergency Standby Diesel Engine and Generator Set	Caterpillar	3516C HD, 4765 in ³ displacement	3,604 BHP, 173 gallons/hour of diesel
S-10	Emergency Standby Diesel Engine and Generator Set	Caterpillar	3516C HD, 4765 in ³ displacement	3,604 BHP, 173 gallons/hour of diesel
S-11	Emergency Standby Diesel Engine and Generator Set	Caterpillar	3516C HD, 4765 in ³ displacement	3,604 BHP, 173 gallons/hour of diesel
S-12	Space Heat Boiler #1, fired on natural gas only (not installed yet)	Cleaver-Brooks, firetube boiler	CBLE-NTI 600-250NT	24.5 E6 BTU/hour
S-13	Space Heat Boiler #2, fired on natural gas only (not installed yet)	Cleaver-Brooks, firetube boiler	CBLE-NTI 600-250NT	24.5 E6 BTU/hour
S-15	Emergency Standby Diesel Engine and Generator Set (Bldg. 40)	John Deere	6466A, 166 in ³ displacement	228 BHP, 11.3 gallons/hour of diesel
S-16	Emergency Standby Diesel Engine and Generator Set (BHC)	Caterpillar	3412, 1648 in ³ displacement	749 BHP, 39 gallons/hour of diesel

II. Equipment

B. Abatement Device List

**Table II – B
 Abatement Devices**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Required Efficiency
A-7	Diesel Particulate Filter	S-7	BAAQMD 2-5-301 (TBACT), see also Table IV-B	back pressure, see also Table VII-B	≥ 85% removal of diesel PM
A-8	Diesel Particulate Filter	S-8	BAAQMD 2-5-301 (TBACT), see also Table IV-B	back pressure, see also Table VII-B	≥ 85% removal of diesel PM
A-9	Diesel Particulate Filter	S-9	BAAQMD 2-5-301 (TBACT), see also Table IV-B	back pressure, see also Table VII-B	≥ 85% removal of diesel PM
A-10	Diesel Particulate Filter	S-10	BAAQMD 2-5-301 (TBACT), see also Table IV-B	back pressure, see also Table VII-B	≥ 85% removal of diesel PM
A-11	Diesel Particulate Filter	S-11	BAAQMD 2-5-301 (TBACT), see also Table IV-B	back pressure, see also Table VII-B	≥ 85% removal of diesel PM

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 will 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 language of SIP requirements is available 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 rule until US EPA has reviewed and approved the District's revision of the regulation.

**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	Permits – General Requirements (4/18/12)	N
BAAQMD 2-1-429	Federal Emissions Statement (12/21/04)	N
SIP Regulation 2, Rule 1	Permits – General Requirements (1/26/99)	Y
SIP Regulation 2-1-429	Federal Emissions Statement (4/3/95)	Y
BAAQMD Regulation 2, Rule 5	Permits – New Source Review of Toxic Air Contaminants (1/6/10)	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
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	Odororous 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 16	Organic Compounds – Solvent Cleaning Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/05)	N
BAAQMD 8-40-116	Exemption, Small Volume	Y
BAAQMD 8-40-117	Exemption, Accidental Spills	Y
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 9, Rule 2	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)	N
BAAQMD Regulation 9, Rule 7	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (5/4/11)	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/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)	Y
BAAQMD Regulation 11, Rule 1	Hazardous Pollutants – Lead (3/17/82)	N
SIP Regulation 11, Rule 1	Hazardous Pollutants – Lead (9/2/81)	Y
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants – Asbestos Demolition, Renovation and Manufacturing (10/7/98)	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 Code of Regulations Title 17, Section 93106	Asbestos Airborne Toxic Control Measure for Asbestos-Containing Serpentine (7/20/00)	N
California Code of Regulations Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater (2/19/11)	N
40 CFR Part 61, Subpart A	National Emission Standards for Hazardous Air Pollutants – General Provisions (2/16/12)	Y
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (11/28/06)	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 language of SIP requirements is posted 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
 Source-Specific Applicable Requirements
 S-5 BOILER #1 AND S-6 BOILER #2**

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 Operation	N	
6-1-401	Appearance of Emissions	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	

IV. Source-Specific Applicable Requirements

**Table IV – A
 Source-Specific Applicable Requirements
 S-5 BOILER #1 AND S-6 BOILER #2**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-401	Appearance of Emissions	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 (5/4/11)		
9-7-112	Limited Exemption, Low Fuel Usage – Section 9-7-307 (applies to S-5)	N	
9-7-112.2	Low Fuel Usage Limits, NO _x and CO Emission Limits, and Record Keeping Requirements for Low Fuel Usage Devices Rated 10 MM BTU/hour or more (applies to S-5)	N	
9-7-113	Limited Exemption, Natural Gas Curtailment and Testing	N	
9-7-113.1	Non-Gaseous Fuel Operating Hour Limits	N	
9-7-113.2	Non-Gaseous Fuel NO _x Limit	N	
9-7-113.3	Record Keeping Requirement	N	
9-7-115	Limited Exemption, Startup and Shutdown	N	
9-7-115.1	Restrictions of Duration of Start and Shutdown Periods	N	
9-7-115.2	Control Device Requirements	N	
9-7-307	Emission Limits – Gaseous Fuel (applies to S-6)	N	
9-7-307.6	NO _x and CO Limits – For Gas-Fired Boilers With a Rated Heat Input of 75 MM BTU/hour or higher (applies to S-6)	N	
9-7-308	Compliance Schedule	N	
9-7-311	Insulation Requirements	N	
9-7-312	Stack Gas Temperature Limits	N	

IV. Source-Specific Applicable Requirements

**Table IV – A
 Source-Specific Applicable Requirements
 S-5 BOILER #1 AND S-6 BOILER #2**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-7-503	Records	N	
9-7-503.2	Records of Natural Gas Curtailment	N	
9-7-503.3	Records of Non-Gaseous Fuel Operating Hours	N	
9-7-503.4	Records of Performance Tests	N	
9-7-504	Low Fuel Usage – Monitoring and Records (applies to S-5)	N	
9-7-504.1	Non-resettable Meter or Other APCO Approved Record Keeping Methods (applies to S-5)	N	
9-7-504.2	Availability and Retention Requirements for Low Fuel Usage Records (applies to S-5)	N	
9-7-505	Original Manufacture Date	N	
9-7-506	Periodic Testing	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	Nitrogen Oxides Limit	Y	
9-7-301.2	Carbon Monoxide Limit	Y	
9-7-305	Natural Gas Curtailment – Non-Gaseous Fuel	Y	
9-7-305.1	Nitrogen Oxides Limit	Y	
9-7-305.2	Carbon Monoxide Limit	Y	
9-7-306	Equipment Testing – Non-Gaseous Fuel	Y	
9-7-306.1	Nitrogen Oxides Limit	Y	
9-7-306.2	Carbon Monoxide Limit	Y	
9-7-306.3	Limit on Duration of Equipment Testing	Y	
9-7-503	Records	Y	
9-7-503.2	Records of Natural Gas Curtailment	Y	
9-7-503.3	Records of Equipment Testing Operating Hours	Y	
9-7-503.4	Records of Source Tests	Y	
BAAQMD Condition # 11103			

IV. Source-Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-5 BOILER #1 AND S-6 BOILER #2

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Limitations on Fuel Types and Operating Times for Back-up Fuel (Regulation 9-7-113)	Y	
Part 2	Low-Use Heat Input Limit for S-5 (Regulation 9-7-112.2)	Y	
Part 3	Record Keeping Requirements (Regulations 9-7-503 and 9-7-504)	Y	

IV. Source-Specific Applicable Requirements

**Table IV – B
 Source-Specific Applicable Requirements
 S-7, S-8, S-9, S-10, AND S-11
 EMERGENCY STANDBY DIESEL ENGINE AND GENERATOR SETS
 AND A-7, A-8, A-9, A-10, AND A-11 DIESEL PARTICULATE FILTERS**

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	
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	
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	
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 – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (7/25/07)		
9-8-110	Exemptions	N	
9-8-110.5	Limited Exemption Emergency Standby Engines	N	
9-8-330	Emergency Standby Engines, Hours of Operation	N	
9-8-330.1	Operating time for emergency use	N	
9-8-330.3	Operating time for reliability and maintenance	N	
9-8-530	Emergency standby engines, monitoring and recordkeeping	N	
9-8-502	Recordkeeping	N	

IV. Source-Specific Applicable Requirements

**Table IV – B
 Source-Specific Applicable Requirements
 S-7, S-8, S-9, S-10, AND S-11
 EMERGENCY STANDBY DIESEL ENGINE AND GENERATOR SETS
 AND A-7, A-8, A-9, A-10, AND A-11 DIESEL PARTICULATE FILTERS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-502.1	Monthly records of usage	N	
40 CFR Part 60, Subpart A	Standards of Performance for New Stationary Sources – General Provisions (9/13/10)		
60.4	Address	Y	
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other Correspondence to the Administrator	Y	
60.7	Notification and Record Keeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Good air pollution control practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(a)	Applies to all continuous monitoring systems	Y	
60.13(b)	Monitors shall be installed and operation before performing performance tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
40 CFR Part 60 Subpart III	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (6/28/11)		
60.4200	Am I subject to this subpart?	Y	
60.4200(a)	Manufacturers, owners and operators of stationary compression ignition (CI) internal combustion engines (ICE)	Y	
60.4200(a)(2)	Owners or operators of CI ICE that commenced construction after 7/11/05	Y	

IV. Source-Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-7, S-8, S-9, S-10, AND S-11
EMERGENCY STANDBY DIESEL ENGINE AND GENERATOR SETS
AND A-7, A-8, A-9, A-10, AND A-11 DIESEL PARTICULATE FILTERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.4200(a)(4)	60.4208 applies if the CI ICE commenced construction after 7/11/05	Y	
60.4205	What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI ICE?	Y	
60.4205(b)	2007 and later model year emergency CI ICE with a displacement of < 30 L/cylinder must meet applicable tier standard limits (40 CFR 89.112-113)	Y	
60.4206	Comply with emission standards over lifetime of engine	Y	
60.4207	Fuel requirements: 40 CFR 80.510(b)	Y	
60.4209	Monitoring requirements	Y	
60.4209(a)	Non-resettable hour meter	Y	
60.4209(b)	Diesel PM filter must be equipped with back pressure monitor	Y	
60.4211	Compliance requirements	Y	
60.4211(a)	Operate and maintain the engine in accordance with manufacturer recommendations	Y	
60.4211(c)	Purchase, install, and configure a certified engine according to manufacturer recommendations	Y	
60.4211(f)	Comply with all operating hour limitations	Y	
60.4214	Notification, reporting, and record keeping requirements	Y	
60.4214(b)	Initial notification not required for emergency engines	Y	
60.4214(c)	For diesel particulate filters, maintain records of back pressure alarms and corrective action taken	Y	
60.4218	What parts of the general provisions apply to me?	Y	
40 CFR Part 63, Subpart A	National Emission Standards for Hazardous Air Pollutants: General Provisions (9/13/10)		
63.4	Prohibited activities and circumvention	Y	
63.5	Preconstruction review and notification requirements	Y	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	

IV. Source-Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-7, S-8, S-9, S-10, AND S-11
EMERGENCY STANDBY DIESEL ENGINE AND GENERATOR SETS
AND A-7, A-8, A-9, A-10, AND A-11 DIESEL PARTICULATE FILTERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6(f)	Compliance with non-opacity emission standards	Y	
63.10	Record keeping and reporting requirements	Y	
63.10(b)	General record keeping requirements	Y	
63.10(b)(2)	For affected sources, maintain relevant records of:	Y	
63.10(b)(2)(i-v)	Records for startup, shutdown, malfunction, and maintenance	Y	
63.10(d)	General reporting requirements	Y	
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	
40 CFR Part 63 Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (3/10/10)		
63.6585	Am I subject to this part?	Y	
63.6585(a)	A stationary reciprocating internal combustion engine (RICE) is not a non-road engine and is not used to propel a motor vehicle.	Y	
63.6585(c)	An area source of HAP emissions is a plant that is not a major source of HAPs (<10 tons/year of any single HAP and <25 tons/year of more of all HAPs combined).	Y	
63.6590	What parts of my plant does this subpart cover?	Y	
63.6590(a)	Affected source is any existing, new or reconstructed stationary RICE located at a major or area source.	Y	
63.6590(a)(2)	New stationary RICE is:	Y	
63.6590(a)(2)(iii)	A stationary RICE located at an area source that commenced construction on or after 6/12/06.	Y	
63.6590(c)	Stationary RICE subject to regulation under 40 CFR Part 60 Subparts IIII or JJJJ must comply with these parts and no further Subpart ZZZZ requirements apply.	Y	
63.6590(c)(1)	A new or reconstructed stationary RICE located at an area source.	Y	
CCR, Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines (5/9/11)	N	
93115.5	Fuel Requirements	N	

IV. Source-Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-7, S-8, S-9, S-10, AND S-11
EMERGENCY STANDBY DIESEL ENGINE AND GENERATOR SETS
AND A-7, A-8, A-9, A-10, AND A-11 DIESEL PARTICULATE FILTERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)	New 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(b)	Demonstration of Compliance with Emission Limits	N	
93115.10(b)(1)	Prior to Installation	N	
93115.10(d)	Monitoring Equipment	N	
93115.10(d)(1)	Non-resettable Hour Meter	N	
93115.10(d)(2)	Back-pressure Monitor for Diesel Particulate Filters	N	
93115.10(e)	Monthly Operating Time Records	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	
BAAQMD Condition #22850			
Part 1	Limit on Annual Hours of Operation (ATCM Section 93115.6(b)(3)(A)(1)(a))	N	
Part 2	Unlimited Emergency Use (ATCM Section 93115.6(b)(3)(A)(1)(a))	N	
Part 3	Hours of operation totalizing counter (ATCM Section 93115.10(e)(1))	N	
Part 4	Recordkeeping (ATCM Section 93115.10(g) and Regulation 2-6-501)	N	
Part 5	Limitations on operation at or near school (ATCM Section 93115.6(a)(1))	N	
BAAQMD Condition #24345			
Part 1	Diesel Particulate Filter Usage Requirement (ATCM Section 93115.6(a)(3) or 93115.6(b)(3))	N	

IV. Source-Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-7, S-8, S-9, S-10, AND S-11
EMERGENCY STANDBY DIESEL ENGINE AND GENERATOR SETS
AND A-7, A-8, A-9, A-10, AND A-11 DIESEL PARTICULATE FILTERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	Backpressure Monitoring Requirement (ATCM Section 93115.10(e) and 40 CFR 60.4214c)	N	

IV. Source-Specific Applicable Requirements

**Table IV – C
 Source-Specific Applicable Requirements
 S-12 SPACE HEAT BOILER #1 AND S-13 SPACE HEAT BOILER #2**

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)		Upon Startup
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	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		Upon Startup
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	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		Upon Startup
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)		Upon Startup
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 (5/4/11)		Upon Startup
9-7-115	Limited Exemption, Startup and Shutdown	N	
9-7-115.1	Restrictions of Duration of Start and Shutdown Periods	N	
9-7-115.2	Control Device Requirements	N	
9-7-307	Final Emission Limits	N	
9-7-307.5	NOx and CO Limits - For Gas-Fired Boilers With a Rated Heat Input of ≥ 20 MM BTU/hour but < 75 MM BTU/hour	N	

IV. Source-Specific Applicable Requirements

**Table IV – C
 Source-Specific Applicable Requirements
 S-12 SPACE HEAT BOILER #1 AND S-13 SPACE HEAT BOILER #2**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-7-308	Compliance Schedule	N	
9-7-311	Insulation Requirements	N	
9-7-312	Stack Gas Temperature Limits	N	
9-7-503	Records	N	
9-7-503.4	Source test records	N	
9-7-505	Original Manufacture Date	N	
9-7-506	Periodic Testing	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)		Upon Startup
9-7-301	Emission Limits – Gaseous Fuel	Y	
9-7-301.1	Nitrogen Oxides Limit	Y	
9-7-301.2	Carbon Monoxide Limit	Y	
9-7-503	Records	Y	
9-7-503.4	Records of Source Tests	Y	
40 CFR, Part 60, Subpart A	Standards of Performance for New Stationary Sources – General Provisions (7/1/08)		Upon Startup
60.4	Address	Y	
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other Correspondence to the Administrator	Y	
60.7	Notification and Record Keeping	Y	
60.12	Circumvention	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
40 CFR, Part 60, Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (2/16/12)		Upon Startup
60.40c	Applicability and Delegation of Authority	Y	
60.40c(a)	Construction Date and Design Heat Capacity Thresholds	Y	
60.48c	Reporting and Record Keeping Requirements	Y	
60.48c(a)	Notification Requirements	Y	
60.48c(a)(1)	Design Heat Input Capacity	Y	

IV. Source-Specific Applicable Requirements

**Table IV – C
 Source-Specific Applicable Requirements
 S-12 SPACE HEAT BOILER #1 AND S-13 SPACE HEAT BOILER #2**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.48c(a)(2)	Federally Enforceable Limits on Annual Capacity	Y	
60.48c(a)(3)	Expected Annual Capacity Factor for Each Fuel	Y	
60.48c(g)	Record Keeping Requirements for Fuel Usage	Y	
60.48c(g)(2)	Alternative Record Keeping Frequency for Specific Fuels	Y	
60.48c(g)(3)	Alternative Fuel Usage Records for Specific Fuels	Y	
60.48c(i)	Record Retention Requirements	Y	
BAAQMD Condition #24342			Upon Startup
Part 1	Fuel Restriction (Regulation 2-1-301 and Exemptions from NSPS and NESHAP Standards)	Y	
Part 2	Combined Fuel Usage Limit for Boilers (Cumulative Increase)	Y	
Part 3	CO Emissions Limit (BACT)	Y	
Part 4	Fuel Meter Requirement (Cumulative Increase)	Y	
Part 5	Compliance Demonstration Tests (BACT and Regulations 9-7-403 and 9-7-506)	Y	
Part 6	Record Keeping Requirements (Cumulative Increase and Regulations 9-7-503 and 9-7-505 and 40 CFR 60.48c(g &i))	Y	

IV. Source-Specific Applicable Requirements

**Table IV – D
 Source-Specific Applicable Requirements
 S-15 AND S-16 EMERGENCY STANDBY DIESEL ENGINES AND GENERATOR SETS**

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 (applies to S-16 only)	N	
6-1-303	Ringelmann Number 2 Limitation (applies to S-15 only)	N	
6-1-303.1	Internal Combustion Engine (applies to S-15 only)	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-301	Ringelmann Number 1 Limitation (applies to S-16 only)	Y	
6-303	Ringelmann Number 2 Limitation (applies to S-15 only)	Y	
6-303.1	Internal Combustion Engine (applies to S-15 only)	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	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	
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 – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (7/25/07)		
9-8-110	Exemptions	N	
9-8-110.5	Limited Exemption Emergency Standby Engines	N	
9-8-330	Emergency Standby Engines, Hours of Operation	N	
9-8-330.1	Operating time for emergency use	N	
9-8-330.3	Operating time for reliability and maintenance	N	

IV. Source-Specific Applicable Requirements

Table IV – D
Source-Specific Applicable Requirements
S-15 AND S-16 EMERGENCY STANDBY DIESEL ENGINES AND GENERATOR SETS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 Emission Standards for Hazardous Air Pollutants: General Provisions (9/13/10)		
63.4	Prohibited activities and circumvention	Y	
63.5	Preconstruction review and notification requirements	Y	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	
63.6(f)	Compliance with non-opacity emission standards	Y	
63.10	Record keeping and reporting requirements	Y	
63.10(b)	General record keeping requirements	Y	
63.10(b)(2)	For affected sources, maintain relevant records of:	Y	
63.10(b)(2)(i-v)	Records for startup, shutdown, malfunction, and maintenance	Y	
63.10(d)	General reporting requirements	Y	
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	
40 CFR Part 63 Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (3/10/10)		
63.6585	Am I subject to this part?	Y	
63.6585(a)	A stationary reciprocating internal combustion engine (RICE) is not a non-road engine and is not used to propel a motor vehicle.	Y	
63.6585(c)	An area source of HAP emissions is a plant that is not a major source of HAPs (<10 tons/year of any single HAP and <25 tons/year of more of all HAPs combined).	Y	
63.6590	What parts of my plant does this subpart cover?	Y	
63.6590(a)	Affected source is any existing, new or reconstructed stationary RICE located at a major or area source.	Y	
63.6590(a)(1)	Existing stationary RICE is:	Y	

IV. Source-Specific Applicable Requirements

**Table IV – D
 Source-Specific Applicable Requirements
 S-15 AND S-16 EMERGENCY STANDBY DIESEL ENGINES AND GENERATOR SETS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6590(a)(1)(iii)	A stationary RICE located at an area source that commenced construction before 6/12/06.	Y	
63.6595	When do I have to comply with this subpart?	Y	
63.6595(a)	Affected Sources: Includes existing station CI RICE located at area source.	Y	
63.6595(a)(1)	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	What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?	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	What are my general requirements for complying with this subpart?	Y	
63.6605(a)	Comply at all times.	Y	
63.6605(b)	Operate and maintain source consistent with safety, good combustion practice to minimize emissions.	Y	
63.6625	What are my monitoring, installation, collection, operation, and maintenance requirements?	Y	
63.6625(e)	Operate and maintain RICE and any abatement controls according to manufacturer's instructions or develop own equivalent plan.	Y	
63.6625(e)(3)	Above applies to existing emergency RICE located at area source of HAPs.	Y	
63.6625(f)	Requirement to have a non-resettable hour meter	Y	

IV. Source-Specific Applicable Requirements

**Table IV – D
 Source-Specific Applicable Requirements
 S-15 AND S-16 EMERGENCY STANDBY DIESEL ENGINES AND GENERATOR SETS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6625(h)	Minimize idling, and minimize startup time to not exceed 30 minutes.	Y	
63.6640	How do I demonstrate continuous compliance with the emissions limitations, operating limitations, and other requirements?	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)(1-4) below	Y	
63.6640(f)(1)	No time limit when engine is used for emergencies	Y	
63.6640(f)(2)	Non-emergency operation for purposes below is limited to 100 hours per year.	Y	
63.6640(f)(2)(i)	Operation of engine for maintenance checks and readiness testing	Y	
63.6640(f)(2)(iii)	Operation of engine for voltage or frequency deviations	Y	
63.6640(f)(4)	Emergency RICE at area sources may operate for 50 hours per year for non-emergencies under specified circumstances.	Y	
63.6645	What notifications must I submit and when?	Y	
63.6645(a)	Submit all applicable notifications by the dates specified.	Y	
63.6645(a)(5)	The notification requirements of 63.6645(a) do not apply to this engine (emergency RICE at an area source).	Y	
63.6655	What records must I keep?	Y	
63.6655(e)	Records of maintenance conducted on the stationary RICE (per (e)(2), includes existing emergency RICE)	Y	
63.6655(f)	Records of hours of operation, document emergency versus non-emergency hours, and reason for non-emergency operation	Y	
63.6655(f)(2)	1. Record hours of operation 2. Install non-resettable hour meter	Y	
63.6660	In what form and how long must I keep records?	Y	
63.6660(a-c)	suitable format, readily accessible, retain for 5 years	Y	

IV. Source-Specific Applicable Requirements

**Table IV – D
 Source-Specific Applicable Requirements
 S-15 AND S-16 EMERGENCY STANDBY DIESEL ENGINES AND GENERATOR SETS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
CCR, Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines (5/9/11)	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	
BAAQMD Condition #22820			
Part 1	Limit on Annual Hours of Operation (ATCM Section 93115.6(b)(3)(A)(1)(a))	N	
Part 2	Unlimited Emergency Use (ATCM Section 93115.6(b)(3)(A)(1)(a))	N	
Part 3	Hours of operation totalizing counter (ATCM Section 93115.10(e)(1))	N	
Part 4	Recordkeeping (ATCM Section 93115.10(g), Regulation 2-6-501)	N	
Part 5	Limitations on operation at or near school (ATCM Section 93115.6(a)(1))	N	

V. SCHEDULE OF COMPLIANCE

The permit holder shall 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 #11103

FOR SOURCES S-5, BOILER #1, AND S-6, BOILER #2

1. Sources S-5 and S-6 shall burn only natural gas except during short test periods of natural gas curtailment of up to 168 hours in each consecutive 12-month period, plus 48 hours in each consecutive 12-month period for oil-burn readiness testing, or for state, federal, or local agency-required performance testing. (Regulation 9-7-113)
2. Effective January 1, 2012, the total fuel used at Sources S-5 and S-6 shall not exceed 23,180,710-1,193,112 therms in during any successive-consecutive 12-month period. (Basis: Cumulative-Increase) Regulation 9-7-112.2)
3. ~~Sources 5 and 6 shall not burn diesel oil having a sulfur content greater than 0.5% by weight.~~
4. ~~Visible particulate emissions from these sources shall not exceed Ringelmann 1.0. [Regulation 6]~~
5. The permit holder shall maintain records of the following:
 - a. Record the Total monthly natural gas usage and fuel oil usage, the higher heating value for each fuel used, and the dates and times of such usage for each boiler, on a monthly basis; and
 - b. For each fuel oil usage event, record the reason for the event (natural gas curtailment, readiness testing, or emissions testing). If fuel oil is used during a natural gas curtailment, maintain documentation from the natural gas supplier verifying that natural gas was unavailable during that period. For any emissions testing events, record the agency that required the testing and the reason for the testing or a citation of the applicable testing requirement.
 - c. Summarize the fuel usage records and the operating time records for each type of fuel and for each boiler for each consecutive rolling 12-month period. For fuel oil operating time records, sum the natural gas curtailment operating time records separately from the total readiness and emissions testing operating time for comparison to the limits in Part 1.

Such records shall be retained for at least two years from date of entry and shall be made available to District staff upon request. (Basis: Regulations 9-7-503 and 9-7-504; Regulation 1-1-441, Cumulative-Increase)

VI. Permit Conditions

Condition #22820

FOR SOURCES S-15 AND S-16, EMERGENCY STANDBY DIESEL ENGINES AND GENERATOR SETS

1. The owner/operator shall not exceed 20 hours per year per engine for reliability-related testing. [Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
2. The owner/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: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
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: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
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: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

VI. Permit Conditions

Condition #22820

FOR SOURCES S-15 AND S-16, EMERGENCY STANDBY DIESEL ENGINES AND GENERATOR SETS

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/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, athletic field, or other areas of school property but does not include unimproved school property.

[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

VI. Permit Conditions

Condition #22850

FOR SOURCES S-7, S-8, S-9, S-10, AND S-11, EMERGENCY STANDBY DIESEL ENGINES AND GENERATOR SETS

1. The owner/operator shall not exceed 50 hours per year per engine for reliability-related testing. [Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
2. The owner/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: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
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: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
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: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

VI. Permit Conditions

Condition #22850

FOR SOURCES S-7, S-8, S-9, S-10, AND S-11, EMERGENCY STANDBY DIESEL ENGINES AND GENERATOR SETS

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/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, athletic field, or other areas of school property but does not include unimproved school property. [Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

Condition #24354

FOR A-7, A-8, A-9, A-10, AND A-11 DIESEL PARTICULATE FILTERS
ABATING SOURCES S-7, S-8, S-9, S-10, AND S-11

1. The owner/operator shall abate the particulate emissions from the emergency diesel engine with a Diesel Particulate Filter at all times the engine is in operation. [Basis: "ATCM for Stationary Compression Ignition Engines" Section 93115.6(a)(3) or 93115.6(b)(3), title 17, CA Code of Regulations]
2. The owner/operator shall install and maintain a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. The owner/operator shall maintain records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached 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). [Basis: "ATCM for Stationary Compression Ignition Engines" Section 93115.10(e), title 17, CA Code of Regulations; 40 CFR 60.4214c]

VI. Permit Conditions

Condition #24342

FOR SOURCES S-12 SPACE HEAT BOILER #1 AND S-13 SPACE HEAT BOILER #2

1. Sources S-12 and S-13 shall burn only natural gas. [Basis: Regulation ~~9-7-113~~ 2-1-301 and Exemptions from NSPS and NESHAP Standards]
2. The total fuel used at each Boiler Sources (S-12 and S-13) shall not exceed 2,145,674 therms in any successive 12-month period. [Basis: Cumulative Increase]
- ~~3. Maximum firing rate shall not exceed 24.5 MM BTU/hour per boiler (based on HHV of the fuel) when firing natural gas. [Basis: NSPS]~~
- ~~4. NOx emissions from any boiler shall not exceed 20 ppmv at 3% oxygen, dry, at any firing rate when firing natural gas. [Basis: BACT; 5/13/98]~~
53. CO emissions from each any bBoiler shall not exceed 50 ppmv at 3% oxygen, dry basis, at any firing rate when firing natural gas. [Basis: BACT; ~~5/13/98~~]
64. To demonstrate compliance with the Part 2 above, the permit holder shall install and maintain a non-resettable totalizing fuel meter, unless the permit holder applies for and receives written approval from the District to use an alternative method for measuring the cumulative annual fuel usage. [Basis: Cumulative Increase]
- ~~7. On or before the later of January 1, 2012, or ten years after the boiler's original date of manufacture if such date was before January 1, 2012, NOx emission from any boiler shall not exceed 15 ppmv at 3% oxygen, dry, at any firing rate. [Basis: Regulation 9-7-307]~~
85. Within 90 days of initial start-up of S-12 and S-13 and annually thereafter, the applicant owner/operator shall conduct an initial source testing to demonstrate compliance with Regulation 9-7-307.5 and Part 3 above~~the above emissions limitations~~. All source testing shall be done in compliance with the District's Manual of Procedures. The applicant shall obtain approval from the Manager of the District's Source Test Section for the installation of test ports and source test procedures. The source test results shall be submitted to the District's Director of Compliance and Enforcement no later than 60 days from the date of the source test. [Basis: BACT and Regulations 9-7-403 and 9-7-506 added by CSF]
- ~~8. Permit holder shall not operate any boiler unless one of the following conditions is satisfied:
 - ~~a. The boiler is operated at less than 10% of the boiler's annual maximum rated heat capacity during the calendar year; or~~
 - ~~b. An inspection and tune-up on the boiler is performed at least once per calendar year by a technician in accordance with the procedure specified in Regulation 9-7-604.~~[Basis: Regulation ~~9-7-313~~]~~

VI. Permit Conditions

Condition #24342

FOR SOURCES S-12 SPACE HEAT BOILER #1 AND S-13 SPACE HEAT BOILER #2

- ~~9. Within 90 days of start up, the applicant shall physically limit the emissions from Sources S-5 and S-6 by 50%, either by removing one of the sources from operation, or by installing a physical orifice capable of restricting gas flow to the boilers by 50%, or by other means mutually acceptable to the applicant and the District. If such emissions reduction is not completed within 90 days of start up, the applicant shall submit a new application for establishment of the facility as a Major Facility as set out in Regulation 2, Rule 6, and Title V of the Federal Clean Air Act. [Basis: Regulation 2-2-314; Regulation 2-6-301; 40 CFR 51.165] added by CSF~~
- ~~9. Within 90 days of start up, the applicant shall conduct an initial demonstration of compliance with the above emissions limitations. All source testing shall be done in compliance with the District's Manual of Procedures. The applicant shall obtain approval from the Manager of the District's Source Test Section for the installation of test ports and source test procedures. The source test results shall be submitted to the District's Director of Compliance and Enforcement no later than 60 days from the date of the source test. [Basis: Regulation 9-7-403]~~
- ~~10. Within 90 days of start up, the applicant shall physically limit the emissions from Sources S-5 and S-6 by 50%, either by removing one of the sources from operation, or by installing a physical orifice capable of restricting gas flow to the boilers by 50%, or by other means mutually acceptable to the applicant and the District. If such emissions reduction is not completed within 90 days of start up, the applicant shall submit a new application for establishment of the facility as a Major Facility as set out in Regulation 2, Rule 6, and Title V of the Federal Clean Air Act. [Basis: Regulation 2-2-314; Regulation 2-6-301; 40 CFR 51.165]~~
- ~~11. On or before the later of January 1, 2012, or ten years after the boiler's original date of manufacture if such date was prior to January 1, 2012, the permit holder must initiate periodic emissions testing of each boiler at least once every two years. Such testing may be conducted either by source testing performed in accordance with the District's Manual of Procedures, or by use of a portable analyzer that meets the specifications and testing protocols set out in Regulation 9, Rule 7, Attachment 1. [Basis: Regulation 9-7-506]~~
- ~~126.~~ The permit holder shall maintain records of the following:
- a. Total monthly natural gas usage, and dates and times of such usage for each boiler;
 - ~~b. Documentation verifying tune ups performed in accordance with paragraph 8(b) above;~~
 - ~~eb.~~ The results of any testing required under Part 5 paragraphs 9 and 10 above.
 - ~~c.~~ Copies of all notifications submitted pursuant to 40 CFR Part 60.48c(a).
 - ~~d.~~ Original manufacture date for each boiler.
- Such records shall be retained for at least two years from date of entry and shall be made available to District staff upon request. [Basis: Regulations 9-7-503 and 9-7-505; ~~Regulation 1-1-441,~~ 40 CFR Part 60.48c(g and i), and Cumulative Increase]

VII. APPLICABLE EMISSION LIMITS & COMPLIANCE MONITORING REQUIREMENTS

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

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
 Applicable Limits and Compliance Monitoring Requirements
 S-5 BOILER #1 AND S-6 BOILER #2**

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 and SIP 6-301	Y		≤ Ringelmann 1.0 for 3 minutes in any hour, except during tube cleaning events	None	N	NA
FP	BAAQMD 6-1-310 and SIP 6-310	Y		≤ 0.15 grains/dscf, corrected to 6% O ₂ , dry basis	None	N	NA
SO ₂	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: ≤ 0.5 ppm for 3 min. and ≤ 0.25 ppm for 60 min. and ≤ 0.05 ppm for 24 hours	None	N	NA
SO ₂	BAAQMD 9-1-302	Y		Applies to S-5 and S-6, during natural gas firing: ≤ 300 ppmv, dry basis	None	N	NA

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII – A
 Applicable Limits and Compliance Monitoring Requirements
 S-5 BOILER #1 AND S-6 BOILER #2**

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Liquid Fuel Sulfur Content	BAAQMD 9-1-304	Y		Applies to S-5 and S-6, during fuel oil firing: $\leq 0.5\%$ sulfur by weight	CCR, Title 13, Section 2281(a) (2 and 5)	P/E	CARB Diesel Fuel Sulfur Content Limits, Sales Restrictions, and Records
NO _x	BAAQMD 9-7-112.2	N		Applies to S-5, during natural gas firing: ≤ 30 ppmv, corrected to 3% O ₂ , dry basis	BAAQMD 9-7-506	P/A	Source Test
NO _x	BAAQMD 9-7-307.6	N		Applies to S-6, during natural gas firing: ≤ 5 ppmv, corrected to 3% O ₂ , dry basis	BAAQMD 9-7-506	P/A	Source Test
NO _x	SIP 9-7-301.1	Y		Applies to S-5 and S-6, during natural gas firing: ≤ 30 ppmv, corrected to 3% O ₂ , dry basis	BAAQMD 9-7-506	P/A	Source Test
NO _x	BAAQMD 9-7-113.2 and SIP 9-7-305.1 and SIP 9-7-306.1	Y		Applies to S-5 and S-6, during fuel oil firing: ≤ 150 ppmv, corrected to 3% O ₂ , dry basis	BAAQMD 9-7-506	P/A	Source Test

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII – A
 Applicable Limits and Compliance Monitoring Requirements
 S-5 BOILER #1 AND S-6 BOILER #2**

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD 9-7-112.2 and BAAQMD 9-7-307.6 and SIP 9-7-301.2	Y		Applies to S-5 and S-6, during natural gas firing: ≤ 400 ppmv, corrected to 3% O ₂ , dry basis	BAAQMD 9-7-506	P/A	Source Test
CO	SIP 9-7-305.2 and SIP 9-7-306.2	Y		Applies to S-5 and S-6, during fuel oil firing: ≤ 400 ppmv, corrected to 3% O ₂ , dry basis	BAAQMD 9-7-506	P/A	Source Test
Temperature	BAAQMD 9-7-311	N		Applies to External Surfaces of Device, Pipes, and Ducts Except Stack: ≤ 120 °F	None	N	NA
Temperature	BAAQMD 9-7-312	N		Applies to Stack Gas: ≤ 150 °F above saturated steam temperature, or ≤ 250 °F above combustion air temperature, whichever is greater	None	N	NA
Operating Time	BAAQMD 9-7-113.1 and BAAQMD Condition # 11103, Part 1	N		Applies to S-5 and S-6, during fuel oil firing: ≤ 48 hours per 12-month period for readiness testing and ≤ 168 hours per 12-month period for all natural gas curtailment events	BAAQMD 9-7-503.3 and Condition # 11103, Part 3(a-c)	P/E	Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII – A
 Applicable Limits and Compliance Monitoring Requirements
 S-5 BOILER #1 AND S-6 BOILER #2**

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Operating Time	BAAQMD 9-7-115.1	N		Each Start-up and Shut-down Period: ≤ 2 hours per event	None	N	NA
Operating Time	SIP 9-7-306.3	Y		Applies to S-5 and S-6, during fuel oil firing: ≤ 48 hours per calendar year for readiness testing	BAAQMD 9-7-503.3 and Condition # 11103, Part 3(a-c)	P/E	Records
Heat Input	BAAQMD Regulation 9-7-112.2 and BAAQMD Condition # 11103, Part 2	N		Applies to S-5: ≤ 1,193,112 therms per 12-month period (≤ 10% of rated capacity)	BAAQMD 9-7-504 and Condition # 11103, Part 3(a & c)	C	Fuel Meter and Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII – B
 Applicable Limits and Compliance Monitoring Requirements
 S-7, S-8, S-9, S-10, AND S-11
 EMERGENCY STANDBY DIESEL ENGINE AND GENERATOR SETS
 AND A-7, A-8, A-9, A-10, AND A-11 DIESEL PARTICULATE FILTERS**

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 and SIP 6-301	Y		≤ Ringelmann 1.0 for 3 minutes in any hour, except during tube cleaning events	None	N	NA
Opacity	40 CFR 89.113	Y		Acceleration Mode ≤ 20% Lugging Mode ≤ 15% Peaks During Above Modes ≤ 50%	40 CFR 60.4205(b), 60.4202(a) (2), 60.4209(b), and 60.4214(c), CCR, Title 17, Section 93115.6(a) (3)(A)(1)(b), and Section 93115.10(b) (1), (d)(2), (f) and BAAQMD Condition # 22850, Part 4	P/E	Engine Certification Standards for Manufacturers, Back Pressure Monitor for Diesel PM Filter, and Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII – B
 Applicable Limits and Compliance Monitoring Requirements
 S-7, S-8, S-9, S-10, AND S-11
 EMERGENCY STANDBY DIESEL ENGINE AND GENERATOR SETS
 AND A-7, A-8, A-9, A-10, AND A-11 DIESEL PARTICULATE FILTERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-1-310 and SIP 6-310	Y		≤ 0.15 grains/dscf, corrected to 6% O ₂ , dry basis	40 CFR 60.4205(b), 60.4202(a) (2), 60.4209(b), and 60.4214(c), 40 CFR 89.112-113, and BAAQMD Condition # 22850, Part 4 and Condition # 24345, Part 1	P/E	Engine Certification Standards for Manufacturers, Back Pressure Monitor for Diesel PM Filter, and Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII – B
 Applicable Limits and Compliance Monitoring Requirements
 S-7, S-8, S-9, S-10, AND S-11
 EMERGENCY STANDBY DIESEL ENGINE AND GENERATOR SETS
 AND A-7, A-8, A-9, A-10, AND A-11 DIESEL PARTICULATE FILTERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Emission Certification Standard: PM	40 CFR 89.112	Y		$PM \leq 0.2 \text{ g/kW-hr}$	40 CFR 60.4205(b), 60.4202(a)(2), 60.4209(b), and 60.4214(c), CCR, Title 17, Section 93115.6(a)(3)(A)(1)(b), and Section 93115.10(b)(1), (d)(2), (f) and BAAQMD Condition # 22850, Part 4 and Condition # 24345, Part 1	P/E	Engine Certification Standards for Manufacturers, Back Pressure Monitor for Diesel PM Filter, and Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII – B
 Applicable Limits and Compliance Monitoring Requirements
 S-7, S-8, S-9, S-10, AND S-11
 EMERGENCY STANDBY DIESEL ENGINE AND GENERATOR SETS
 AND A-7, A-8, A-9, A-10, AND A-11 DIESEL PARTICULATE FILTERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Emission Certification Standards: NMHC+HC and CO	40 CFR 89.112	Y		NMHC+HC \leq 6.4 g/kW-hr and CO \leq 3.5 g/kW-hr	40 CFR 60.4205(b), 60.4202(a) (2), 60.4209(b), and 60.4214(c), CCR, Title 17, Section 93115.6(a) (3)(A)(1)(b), and Section 93115.10(b) (1), (d)(2), (f) and BAAQMD Condition # 22850, Part 4	P/E	Engine Certification Standards for Manufacturers, and Records
SO ₂	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: \leq 0.5 ppm for 3 min. and \leq 0.25 ppm for 60 min. and \leq 0.05 ppm for 24 hours	None	N	NA
Liquid Fuel Sulfur Content	BAAQMD 9-1-304	Y		\leq 0.5% sulfur by weight in liquid fuel	CCR, Title 13, Section 2281(a) (2 and 5), CCR, Title 17, Sections 93115.5 and 93115.10	P/E	CARB Diesel Fuel Sulfur Content Limits, Sales Restrictions, Usage Requirements, and Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII – B
 Applicable Limits and Compliance Monitoring Requirements
 S-7, S-8, S-9, S-10, AND S-11
 EMERGENCY STANDBY DIESEL ENGINE AND GENERATOR SETS
 AND A-7, A-8, A-9, A-10, AND A-11 DIESEL PARTICULATE FILTERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Liquid Fuel Sulfur Content and Other Limits	40 CFR, 80.510(b)	Y		Non-Road Engines must use diesel fuel, which has: ≤ 15 ppmw of sulfur And Either Cetane Index ≥ 40 , or Aromatic Content $\leq 35\%$ by volume (for fuel sold after 6/1/10)	40 CFR, 60.4207(b) and BAAQMD Condition # 22850, Part 4e	P/E	Diesel Fuel Limits, Sales Restrictions, Usage Requirements, and Records
Liquid Fuel Sulfur Content	CCR Title 17, Section 93115.5 (b) and CCR, Title 13, Section 2281(a) (2 and 5)	N		Standby Engines must use CARB Diesel Fuel or other CARB Approved Alternative Fuel, which has Fuel Sulfur Limits of: ≤ 15 ppmw of sulfur (for fuel sold after 6/1/06)	CCR, Title 17, Sections 93115.5 and 93115.10 and BAAQMD Condition # 22850, Parts 3-4	C & P/M	CARB Diesel Fuel Sulfur Content Limits, Sales Restrictions, Usage Requirements, and Records
Operating Hours	BAAQMD 9-8-330.3	N		Operating Hours for Reliability-Related Activities: ≤ 50 hours in a calendar year	BAAQMD 9-8-530 and BAAQMD Condition # 22850, Parts 3-4	C & P/M	Hour Meter and Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII – B
 Applicable Limits and Compliance Monitoring Requirements
 S-7, S-8, S-9, S-10, AND S-11
 EMERGENCY STANDBY DIESEL ENGINE AND GENERATOR SETS
 AND A-7, A-8, A-9, A-10, AND A-11 DIESEL PARTICULATE FILTERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Operating Hours	CCR, Title 17, Section 93115.6 (a)(3)(A) (1)(c)	N		Operating Hours for Reliability-Related Activities: ≤ 50 hours in a calendar year	CCR, Title 17, Section 93115.10 (d)(1), (e), and (f)(1) and BAAQMD Condition # 22850, Parts 3-4	C & P/M	Hour Meter and Records
Operating Hours	BAAQMD Condition # 22850, Part 1	N		Operating Hours for Reliability-Related Activities: ≤ 50 hours in a calendar year	BAAQMD Condition # 22850, Parts 3-4	C & P/M	Hour Meter and Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII – C
 Applicable Limits and Compliance Monitoring Requirements
 S-12 SPACE HEAT BOILER #1 AND S-13 SPACE HEAT BOILER #2**

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 and SIP 6-301	Y		≤ Ringelmann 1.0 for 3 minutes in any hour, except during tube cleaning events	None	N	NA
FP	BAAQMD 6-1-310 and SIP 6-310	Y		≤ 0.15 grains/dscf, corrected to 6% O ₂ , dry basis	None	N	NA
SO ₂	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: ≤ 0.5 ppm for 3 min. and ≤ 0.25 ppm for 60 min. and ≤ 0.05 ppm for 24 hours	None	N	NA
SO ₂	BAAQMD 9-1-302	Y		≤ 300 ppmv, dry basis	None	N	NA
NO _x	BAAQMD 9-7-307.5	N		≤ 9 ppmv, corrected to 3% O ₂ , dry basis	BAAQMD 9-7-506 and BAAQMD Condition # 24342, Part 5	P/A	Source Tests
NO _x	SIP 9-7-301.1	Y		≤ 30 ppmv, corrected to 3% O ₂ , dry basis	BAAQMD 9-7-506 and BAAQMD Condition # 24342, Part 5	P/A	Source Tests

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII – C
 Applicable Limits and Compliance Monitoring Requirements
 S-12 SPACE HEAT BOILER #1 AND S-13 SPACE HEAT BOILER #2**

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD 9-7-112.2 and BAAQMD 9-7-307.6 and SIP 9-7-301.2	Y		≤ 400 ppmv, corrected to 3% O ₂ , dry basis	BAAQMD 9-7-506 and BAAQMD Condition # 24342, Part 5	P/A	Source Tests
CO	BAAQMD Condition # 24342, Part 3	Y		≤ 50 ppmv, corrected to 3% O ₂ , dry basis	BAAQMD 9-7-506 and BAAQMD Condition # 24342, Part 5	P/A	Source Tests
Temperature	BAAQMD 9-7-311	N		Applies to External Surfaces of Device, Pipes, and Ducts Except Stack: ≤ 120 °F	None	N	NA
Temperature	BAAQMD 9-7-312	N		Applies to Stack Gas: ≤ 150 °F above saturated steam temperature, or ≤ 250 °F above combustion air temperature, whichever is greater	None	N	NA
Operating Time	BAAQMD 9-7-115.1	N		Each Start-up and Shut-down Period: ≤ 2 hours per event	None	N	NA

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII – C
 Applicable Limits and Compliance Monitoring Requirements
 S-12 SPACE HEAT BOILER #1 AND S-13 SPACE HEAT BOILER #2**

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Heat Input	BAAQMD Condition # 24342, Part 2	Y		$\leq 2,145,6742$ therms per boiler per 12-month period	Condition # 24342, Parts 4 & 6a	C	Fuel Meter and Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII – D
 Applicable Limits and Compliance Monitoring Requirements
 S-15 AND S-16 EMERGENCY STANDBY DIESEL ENGINES AND GENERATOR SETS**

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 and SIP 6-301	Y		Applies to S-16 Only: \leq Ringelmann 1.0 for 3 minutes in any hour, except during tube cleaning events	None	N	NA
Opacity	BAAQMD 6-1-303 and SIP 6-303	Y		Applies to S-15 Only: \leq Ringelmann 2.0 for 3 minutes in any hour, except during tube cleaning events	None	N	NA
FP	BAAQMD 6-1-310 and SIP 6-310	Y		\leq 0.15 grains/dscf, corrected to 6% O ₂ , dry basis	None	N	NA
SO ₂	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: \leq 0.5 ppm for 3 min. and \leq 0.25 ppm for 60 min. and \leq 0.05 ppm for 24 hours	None	N	NA
Liquid Fuel Sulfur Content	BAAQMD 9-1-304	Y		\leq 0.5% sulfur by weight in liquid fuel	CCR, Title 13, Section 2281(a) (2 and 5), CCR, Title 17, Sections 93115.5(b) and 93115.10 (f)(1)	P/E	CARB Diesel Fuel Sulfur Content Limits, Sales Restrictions, Usage Requirements, and Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII – D
 Applicable Limits and Compliance Monitoring Requirements
 S-15 AND S-16 EMERGENCY STANDBY DIESEL ENGINES AND GENERATOR SETS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Liquid Fuel Sulfur Content	CCR Title 17, Section 93115.5 (b) and CCR, Title 13, Section 2281(a) (2 and 5)	N		Standby Engines must use CARB Diesel Fuel or other CARB Approved Alternative Fuel, which has Fuel Sulfur Limits of: ≤ 15 ppmw of sulfur (for fuel sold after 6/1/06)	CCR, Title 17, Sections 93115.5(b) and 93115.10 (f)(1) and BAAQMD Condition # 22820, Parts 3-4	C & P/M	CARB Diesel Fuel Sulfur Content Limits, Sales Restrictions, Usage Requirements, and Records
Operating Hours	BAAQMD 9-8-330.3	N		Operating Hours for Reliability-Related Activities: ≤ 20 hours in a calendar year	BAAQMD 9-8-530 and BAAQMD Condition # 22820, Parts 3-4	C & P/M	Hour Meter and Records
Operating Hours	40 CFR 63.6640 (f)(2)	Y		Operating Hours for Maintenance Checks, Readiness Testing, and Other Non-Emergency Operation: ≤ 100 hours in a calendar year	40 CFR 63.6625(f) and 63.6655(f)(2)	C & P/M	Hour Meter and Records
Operating Hours	40 CFR 63.6640 (f)(2)(iii)	Y		Operating Hours for Non-Emergency Operation: ≤ 50 hours in a calendar year	40 CFR 63.6625(f) and 63.6655(f)(2)	C & P/M	Hour Meter and Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII – D
 Applicable Limits and Compliance Monitoring Requirements
 S-15 AND S-16 EMERGENCY STANDBY DIESEL ENGINES AND GENERATOR SETS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Operating Hours	CCR, Title 17, Section 93115.6 (b)(3)	N		Operating Hours for Reliability-Related Activities: < 20 hours in a calendar year (for in-use emergency standby engines that emit > 0.40 g/bhp-hr of diesel PM)	CCR, Title 17, Section 93115.10 (d)(1), (e), and (f)(1) and BAAQMD Condition # 22820, Parts 3-4	C & P/M	Hour Meter and Records
Operating Hours	BAAQMD Condition # 22820, Part 1	N		Operating Hours for Reliability-Related Activities: < 20 hours in a calendar year	BAAQMD Condition # 22820, Parts 3-4	C & P/M	Hour Meter and Records
Idle Time	40 CFR 63.6625(h)	Y		≤30 minutes for start-up	None	N	N/A
Maintenance Events	40 CFR, Part 63, Subpart ZZZZ, Table 2d 4.a.	Y		Change Oil and Filter: Every 500 hours of operation or annually, whichever comes first	40 CFR 63.6655(e-f)	P/E	Records
Maintenance Events	40 CFR, Part 63, Subpart ZZZZ, Table 2d 4.b.	Y		Inspect Air Cleaner: Every 1,000 hours of operation or annually, whichever comes first	40 CFR 63.6655(e-f)	P/E	Records
Maintenance Events	40 CFR, Part 63, Subpart ZZZZ, Table 2d 4.c.	Y		Inspect Hoses and Belts and (if necessary) Replace Hoses and Belts: Every 500 hours of operation or annually, whichever comes first	40 CFR 63.6655(e-f)	P/E	Records

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally referenced in Section 600 et seq. 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 6-1-301 and SIP 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions; or US EPA Reference Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources
BAAQMD 6-1-303.1 and SIP 6-303.1	Ringelmann No. 2 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions; or US EPA Reference Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources
BAAQMD 6-1-310 and SIP 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling, or For combustion equipment: US EPA Reference Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD 9-1-301	Limitations on Ground Level Concentrations (SO ₂)	Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide
BAAQMD 9-1-302	General Emission Limitation (SO ₂)	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling
BAAQMD 9-1-304	Liquid Fuel Sulfur Content Limit	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oil
BAAQMD 9-7-112.2	NOx and CO Limits for Low Usage Boilers During Natural Firing	Manual of Procedure, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling; and Manual of Procedure, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling; and Manual of Procedure, Volume IV, ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-113.2	NOx Limit During Non-Gaseous Fuel Firing	Manual of Procedure, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling; and Manual of Procedure, Volume IV, ST-14, Oxygen, Continuous Sampling

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 9-7-307.5 or 9-7-307.6	Performance Standard, NOx	Manual of Procedure, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling; and Manual of Procedure, Volume IV, ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-307.5 or 9-7-307.6	Performance Standard, CO	Manual of Procedure, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling; and Manual of Procedure, Volume IV, ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-311	Temperature Limit for Surfaces	APCO approved portable temperature monitoring device
BAAQMD 9-7-312	Temperature Limit for Stack Gas	APCO approved thermocouple
SIP 9-7-301.1, or 9-7-305.1, or 9-7-306.1	Performance Standard, NOx	Manual of Procedure, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling; and Manual of Procedure, Volume IV, ST-14, Oxygen, Continuous Sampling
SIP 9-7-301.2, or 9-7-305.2, or 9-7-306.2	Performance Standard, CO	Manual of Procedure, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling; and Manual of Procedure, Volume IV, ST-14, Oxygen, Continuous Sampling
CCR, Title 13, Section 2281 (a)(2 and 5)	Liquid Fuel Sulfur Content Limit	ASTM D2622-94 or CARB Approved Equivalent
BAAQMD Condition # 11103, Part 2	Heat Input Limit for S-5	APCO Approved Fuel Usage Meter and Recorder
BAAQMD Condition # 24342, Part 2	Heat Input Limit for S-15 and S-16	APCO Approved Fuel Usage Meter and Recorder
BAAQMD Condition # 24342, Part 3	CO Limit	Manual of Procedure, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling; and Manual of Procedure, Volume IV, ST-14, Oxygen, Continuous Sampling

IX. PERMIT SHIELD

Not applicable

X. REVISION HISTORY

Initial Issuance (Application 24585): [Enter Issuance Date]

- Condition # 11103: Remove obsolete and redundant limits, add low usage limit for S-5, correct condition bases, and clarify record keeping requirements.
- Condition # 23432: Remove obsolete, redundant, and incorrect limits, clarify heat input limit, correct condition bases, and clarify source testing and record keeping requirements.

XI. GLOSSARY

ACT

Federal Clean Air Act

AP-42

An EPA Document "Compilation of Air Pollution Emission Factors" that is used to estimate emissions from numerous source types. It is available electronically from EPA's web site at: <http://www.epa.gov/ttn/chief/ap42/index.html>

APCO

Air Pollution Control Officer: Head of Bay Area Air Quality Management District

ARB

Air Resources Board (same as CARB)

ASTM

American Society for Testing and Materials

ATC

Authority to Construct

ATCM

Airborne Toxic Control Measure

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

BARCT

Best Available Retrofit Control Technology

Basis

The underlying authority that allows the District to impose requirements.

C1

An organic chemical compound with one carbon atom, for example: methane

C3

An organic chemical compound with three carbon atoms, for example: propane

XI. Glossary

C5

An organic chemical compound with five carbon atoms, for example: pentane

C6

An organic chemical compound with six carbon atoms, for example: hexane

C₆H₆

Benzene

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CAPCOA

California Air Pollution Control Officers Association

CARB

California Air Resources Board (same as ARB)

CCR

California Code of Regulations

CEC

California Energy Commission

CEM

A “continuous emission monitor” is a monitoring device that provides a continuous direct measurement of some pollutant (e.g. NO_x concentration) in an exhaust stream.

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.

CH₄ or CH₄

Methane

XI. Glossary

CI

Compression Ignition

CIWMB

California Integrated Waste Management Board

CO

Carbon Monoxide

CO₂ or CO₂

Carbon Dioxide

CO₂e

Carbon Dioxide Equivalent. A carbon dioxide equivalent emission rate is the emission rate of a greenhouse gas compound that has been adjusted by multiplying the mass emission rate by the global warming potential of the greenhouse gas compound. These adjusted emission rates for individual compounds are typically summed together, and the total is also referred to as the carbon dioxide equivalent (CO₂e) emission rate.

CT

Combustion Zone Temperature

Cumulative Increase

The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

District

The Bay Area Air Quality Management District

E6, E9, E12

Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example, 4.53E6 equals $(4.53) \times (10^6) = (4.53) \times (10 \times 10 \times 10 \times 10 \times 10 \times 10) = 4,530,000$. Scientific notation is used to express large or small numbers without writing out long strings of zeros.

EG

Emission Guidelines

XI. Glossary

EO

Executive Order

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 (MACT), and Part 72 (Permits Regulation, Acid Rain), 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.

FR

Federal Register

GDF

Gasoline Dispensing Facility

GHG

Greenhouse Gas

GLM

Ground Level Monitor

Grains

1/7000 of a pound

GWP

Global Warming Potential. A comparison of the ability of each greenhouse gas to trap heat in the atmosphere relative to that of carbon dioxide over a specific time period.

H₂S or H₂S

Hydrogen Sulfide

XI. Glossary

H2SO4 or H₂SO₄

Sulfuric Acid

H&SC

Health and Safety Code

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.

Hg

Mercury

HHV

Higher Heating Value. The quantity of heat evolved as determined by a calorimeter where the combustion products are cooled to 60F and all water vapor is condensed to liquid.

LEA

Local Enforcement Agency

LFG

Landfill gas

LHV

Lower Heating Value. Similar to the higher heating value (see HHV) except that the water produced by the combustion is not condensed but retained as vapor at 60°F.

Long ton

2200 pounds

Major Facility

A facility with potential emissions of: (1) at least 100 tons per year of regulated air pollutants, (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.

MAX or Max.

Maximum

XI. Glossary

MFR

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

MIN or Min.

Minimum

MOP

The District's Manual of Procedures.

MSDS

Material Safety Data Sheet

MSW

Municipal solid waste

MW

Molecular weight

N2

Nitrogen

NA

Not Applicable

NAAQS

National Ambient Air Quality Standards

NESHAPS

National Emission Standards for Hazardous Air Pollutants. See in 40 CFR Parts 61 and 63.

NMHC

Non-methane Hydrocarbons (Same as NMOC)

NMOC

Non-methane Organic Compounds (Same as NMHC)

XI. Glossary

NO_x or NO_x

Oxides of nitrogen.

NO₂ or NO₂

Nitrogen Dioxide.

NSPS

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

NSR

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of pollutants for which criteria have been established in accordance with Section 108 of the Federal Clean Air Act. Mandated by Title I of the Federal Clean Air Act and implemented by 40 CFR Parts 51 and 52 and District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

O₂ or O₂

Oxygen

Offset Requirement

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

PERP

Portable Equipment Registration Program

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

Particulate Matter

XI. Glossary

PM10 or PM₁₀

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

PSD

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of those air pollutants for which the 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.

PV or P/V Valve or PRV

Pressure/Vacuum Relief Valve

RICE

Reciprocating Internal Combustion Engine

RMP

Risk Management Plan

RWQCB

Regional Water Quality Control Board

S

Sulfur

SCR

A "selective catalytic reduction" unit is an abatement device that reduces NO_x concentrations in the exhaust stream of a combustion device. SCRs utilize a catalyst, which operates within a specific temperature range, and injected ammonia to promote the conversion of NO_x compounds to nitrogen gas.

Short ton

2000 pounds

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 or SO₂

Sulfur dioxide

XI. Glossary

SO₃ or SO₃

Sulfur trioxide

SSM

Startup, Shutdown, or Malfunction

SSM Plan

A plan, which states the procedures that will be followed during a startup, shutdown, or malfunction, that is prepared in accordance with the general NESHAP provisions (40 CFR Part 63, Subpart A) and maintained on site at the facility.

TAC

Toxic Air Contaminant (as identified by CARB)

TBACT

Best Available Control Technology for Toxics

THC

Total Hydrocarbons (NMHC + Methane)

therm

100,000 British Thermal Units

Title V

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

TOC

Total Organic Compounds (NMOC + Methane, Same as THC)

TPH

Total Petroleum Hydrocarbons

TRMP

Toxic Risk Management Policy

TRS

Total Reduced Sulfur, which is a measure of the amount of sulfur-containing compounds in a gas stream, typically a fuel gas stream, including, but not limited to, hydrogen sulfide. The TRS content of a fuel gas determines the concentration of SO₂ that will be present in the combusted fuel gas, since sulfur compounds are converted to SO₂ by the combustion process.

XI. Glossary

TSP

Total Suspended Particulate

TVP

True Vapor Pressure

VOC

Volatile Organic Compounds

VMT

Vehicle Miles Traveled

Symbols:

<	=	less than
>	=	greater than
≤	=	less than or equal to
≥	=	greater than or equal to

Units of Measure:

atm	=	atmospheres
bbl	=	barrel of liquid (42 gallons)
bhp	=	brake-horsepower
btu	=	British Thermal Unit
BTU	=	British Thermal Unit
°C	=	degrees Centigrade
cfm	=	cubic feet per minute
dscf	=	dry standard cubic feet
°F	=	degrees Fahrenheit
ft ³	=	cubic feet
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
gr	=	grains
hp	=	horsepower
hr	=	hour
in	=	inches
kW	=	kilowatts
lb	=	pound
lbmol	=	pound-mole
m ²	=	square meter
m ³	=	cubic meters
min	=	minute

XI. Glossary

mm	=	millimeter
MM	=	million
MM BTU	=	million BTU
MMcf	=	million cubic feet
Mg	=	mega grams
M scf	=	one thousand standard cubic feet
MW	=	megawatts
ppb	=	parts per billion
ppbv	=	parts per billion, by volume
ppm	=	parts per 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
scf	=	standard cubic feet
scfm	=	standard cubic feet per minute
sdcf	=	standard dry cubic feet
sdcfm	=	standard dry cubic feet per minute
yd	=	yard
yd ³	=	cubic yards
yr	=	year