

Bay Area Air Quality Management District

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

Final Proposed

MAJOR FACILITY REVIEW PERMIT

Issued To:

**East Bay Municipal Utility District
Facility #A0591**

Facility Address:

2020 Wake Avenue
Oakland, CA 94607

Mailing Address:

P.O. Box 24055 MS #704
Oakland, CA 94607

Responsible Official

David R. Williams
(510) 287-1663

Facility Contact

Kurt Haunschild
(510) 287-1407

Type of Facility: Municipal Wastewater Treatment Facility
(Publicly Owned Treatment Works)

BAAQMD Engineering
Division Contact:

~~Hon-Ting Man~~ [Irma](#)

[Salinas](#)

Primary SIC: 4952

Product: Treated Municipal Wastewater

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Jeff McKay for Jack P. Broadbent

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

December 28, 2010

Date

TABLE OF CONTENTS

I.	STANDARD CONDITIONS	3
II.	EQUIPMENT	8
III.	GENERALLY APPLICABLE REQUIREMENTS	12
IV.	SOURCE-SPECIFIC APPLICABLE REQUIREMENTS	15
V.	SCHEDULE OF COMPLIANCE	58
VI.	PERMIT CONDITIONS	59
VII.	APPLICABLE EMISSION LIMITS & COMPLIANCE MONITORING REQUIREMENTS.....	82
VIII.	TEST METHODS.....	108
IX.	PERMIT SHIELD.....	112
X.	REVISION HISTORY.....	113
XI.	GLOSSARY	115

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 ~~7/9/08~~5/4/11);
- SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 6/28/99);
- BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on ~~3/4/09~~4/18/12);
- 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 12/21/04),
- SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 1/26/99),
- BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants
(as 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)
- 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 was issued on ~~July 26, 2005~~ and expires on ~~June 30, 2010~~[when issued, enter 5th anniversary of issue date]. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than ~~December 31, 2009~~[when issued, enter date 6 months prior to permit expiration date] and no earlier than ~~June 30, 2009~~[when issued, enter date 12 months prior to expiration date]. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after ~~June 30, 2010~~[when issued, enter 5th anniversary of issue date].** If the permit renewal has not been issued by ~~June 30, 2010~~[], but a complete application for renewal has been submitted in accordance with the

I. Standard Conditions

- 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 reissuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
 3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)
 4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
 5. The filing of a request by the facility for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
 6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
 7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
 8. Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
 9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
 10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions or the potential to emit for the time period stated and is included only as one means of determining applicable

I. Standard Conditions

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)

C. Requirement to Pay Fees

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

D. Inspection and Entry

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

E. Records

1. The permit holder must provide any information, records, and reports requested or specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)
2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of entry. (Regulation 2-6-501, ~~Regulation 3~~; MOP Volume II, Part 3, §4.7)

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be [date of issuance] to [six months later]. Monitoring reports shall be prepared for the following periods: The report shall be submitted by [one month after end of reporting period]. Subsequent reports shall be for the following periods: [July-_____ 1st through December-_____ 30th or 31st] and January-[_____ 1st through June-_____ 30th or 31st], 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

I. Standard Conditions

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

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

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

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be ~~July~~ _____ ~~1st to through June~~ _____ 30th. The certification shall be submitted by ~~July~~ _____ ~~30th or~~ 31st of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification should be sent to the Environmental Protection Agency at the following address:

Director of the Air Division
USEPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105
Attention: Air-3

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

H. Emergency Provisions

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-

I. Standard Conditions

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**

~~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.~~

S-#	Description	Make or Type	Model	Capacity
S-37	Multi-Fuel Cogeneration Engine #1, Diesel Fuel/Digester Gas/Natural Gas Fired	DeLaval/Cooper	DGSR-46	49.8-25 MM Btu/hr, 28,600 cu in displacement
S-38	Multi-Fuel Cogeneration Engine #2 Diesel Fuel/Digester Gas/Natural Gas Fired	DeLaval/Cooper	DGSR-46	49.8-25 MM Btu/hr, 28,600 cu in displacement
S-39	Multi-Fuel Cogeneration Engine #3 Diesel Fuel/Digester Gas/Natural Gas Fired	DeLaval/Cooper	DGSR-46	49.8-25 MM Btu/hr, 28,600 cu in displacement
S-43	Wet Weather Primary Sludge Thickeners (2)	Custom	Custom	N/A
S-45	Aerated Grit Tanks (8)	Custom	N/A	N/A
S-47	Scum Thickening Building	Custom	N/A	N/A
S-48	Gasoline Dispensing Facility #9008	Emco-Wheaton	N/A	3000 gallon <u>Hoover above ground</u> tank; one gasoline dispensing nozzle
S-49	Diesel Engine Backup Generator, Portable	Allis Chalmers	3500 MK11	134 HP
S-50	Diesel Engine Backup Generator	Detroit Diesel	10437316	238 HP
S-51	Diesel Engine Backup Generator	Generac	440FER82 12 GGW	268 HP
S-52	Diesel Engine Backup Generator, <u>Portable</u>	Generac	unknown	280 HP

II. Equipment List

**Table II – A
 Permitted Sources**

~~Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, 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.~~

S-#	Description	Make or Type	Model	Capacity
S-53	Diesel Engine Backup Generator	Cummins	6CTA8.3-G	277 HP
S-54	Diesel Engine Backup Generator	Caterpillar	3412B	1114 HP, <u>1649 cu in.</u>
S-55	Hot Water Boiler, Digester Gas Fired	Cleaver-Brooks	W28- HHW- BLR-001	20.41 MMBTU/hr
S-56	Digester Gas Turbine #1, Digester Gas Fired	Solar	Mercury 50	4.5 MW; 44.5 MMBTU/hr
S-57	Digester Gas Turbine #2, Digester Gas Fired	Solar	Mercury 50	4.5 MW; 44.5 MMBTU/hr
S-100	Wastewater Treatment Plant-Fugitive Emissions	Custom	A3003/ A3005	N/A
S-110	Headworks, IPS, Barscreens	Custom	N/A	N/A
S-120	Primary Treatment; <u>16</u> Sedimentation Tanks	Custom	N/A	N/A
S-130	Secondary Treatment; 8 HPO Activated Sludge Units	Custom	N/A	N/A
S-140	Secondary Clarifiers; 12 Clarifiers	Custom	N/A	N/A
S-160	Disinfection; Chlorination Contact Tanks, Non-ducted, Effluent	Custom	N/A	N/A
S-170	Sludge Handling, 3 WAS GBTs,- 6 Dewatering Centrifuges	Custom	N/A	N/A
S-180	Anaerobic Digesters (11), 10 Floating Cover, 1 Dystor Unit	Custom	N/A	N/A

II. Equipment List

B. Abatement Device List

**Table II – B
 Abatement Devices**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Required Efficiency
A-7	Atomized Mist Scrubber	S-170,	BAAQMD Reg 1-301	None Listed	N/A
A-190	Digester Gas Flare, 10.5 MM Btu/hr	S-180	BAAQMD Reg 1-301, 8-2-301	None Listed	< 15 lb/day & 300 ppm C
A-191	Digester Gas Flare, 10.5 MM Btu/hr	S-180	BAAQMD Reg 1-301, 8-2-301	None Listed	< 15 lb/day & 300 ppm C
A-192	Digester Gas Flare, 10.5 MM Btu/hr	S-180	BAAQMD Reg 1-301, 8-2-301	None Listed	< 15 lb/day & 300 ppm C
A-193	Digester Gas Flare, 10.5 MM Btu/hr	S-180	BAAQMD Reg 1-301, 8-2-301	None Listed	< 15 lb/day & 300 ppm C
A-461	Carbon Bed Scrubber	S-110	BAAQMD Reg 1-301	None Listed	<u>N/A</u>
A-462	Carbon Bed Scrubber	S-110	BAAQMD Reg 1-301	None Listed	<u>N/A</u>

II. Equipment List

C. Exempt Equipment List

Each of the following devices is exempt from major facility review permitting pursuant to the requirements of BAAQMD Regulation 2, Rule 6: Permits, Major Facility Review. The applicable exemption for each device is identified in the table below. Registered portable engines and non-road engines are exempt from BAAQMD Regulation 2, Rule 6 pursuant to BAAQMD Regulation 2-6-113 and 2-6-114, respectively, even though these engines may be required to have a BAAQMD permit to operate pursuant to BAAQMD Regulation 2, Rule 1, Permit, General Requirements.

Table II – C
Exempt Equipment

<u>S-#</u>	<u>Description</u>	<u>Type or Make and Model</u>	<u>Capacity</u>	<u>Comments</u>
S-49	Portable Diesel Engine, Backup Generator	Allis Chalmers	134 bhp- 3500 MK11	Exempt per 2-6-114

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 on EPA Region 9’s 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	FE Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (7/9/085/4/11)	N
SIP Regulation 1	General Provisions and Definitions (8/27/996/28/99)	Y
BAAQMD Regulation 2, Rule 1	Permits – General Requirements (3/4/094/18/12)	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

III. General Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	FE Federally Enforceable (Y/N)
BAAQMD Regulation 2, Rule 5	<u>Permits</u> – New Source Review of Toxic Air Contaminants (1/6/10)	N
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (3/6/02 7/9/08)	N
SIP Regulation 5	Opening Burning (9/4/98)	Y
BAAQMD Regulation 6, Rule 1	Particulate Matter – General Requirements (12/5/07)	N
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds – General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (7/20/05)	N
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (3/22/95)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds – Architectural Coatings (11/21/01 7/1/09)	N Y
<u>SIP Regulation 8, Rule 3</u>	<u>Organic Compounds – Architectural Coatings (1/2/04)</u>	<u>Y</u>
BAAQMD Regulation 8, Rule 4	Organic Compounds – General Solvent and Surface Coating Operations (10/16/02)	Y
<u>BAAQMD Regulation 8 Rule 15</u>	<u>Organic Compounds – Emulsified and Liquid Asphalts (6/1/94)</u>	<u>Y</u>
<u>BAAQMD Regulation 8, Rule 16</u>	<u>Organic Compounds – Solvent Cleaning Operations (10/16/02)</u>	<u>Y</u>
BAAQMD Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/05)	N
<u>BAAQMD 8-40-116</u>	<u>Exemption, Small Volume (12/15/99)</u>	<u>Y</u>
<u>BAAQMD 8-40-117</u>	<u>Exemption, Accidental Spills (12/15/99)</u>	<u>Y</u>
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

III. General Applicable Requirements

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	FE Federally Enforceable (Y/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 (3/17/82, 10/6/99)	N
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 Health and Safety Code Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines	N
California Health and Safety Code Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater (2/19/11)	N
<u>40 CFR Part 61, Subpart A</u>	<u>National Emission Standards for Hazardous Air Pollutants – General Provisions (9/13/10)</u>	<u>Y</u>
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (6/19/95)	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 on EPA Region 9's 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>

Table IV-A
Source Specific Applicable Requirements
S-37 Multi-Fuel Cogeneration Engine #1
S-39 Multi-Fuel Cogeneration Engine #3

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter - General Requirements (12/5/07)		
6-1-303	Ringelmann No. 2 Limitation	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Heat Transfer Operation -Particulate concentration corrected to 6% oxygen, dry basis	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-303	Ringelmann No. 2 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation - Particulate concentration corrected to 6% oxygen, dry basis	Y	
6-401	Appearance of Emissions	Y	

IV. Source-Specific Applicable Requirements

Table IV-A
Source Specific Applicable Requirements
S-37 Multi-Fuel Cogeneration Engine #1
S-39 Multi-Fuel Cogeneration Engine #3

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (7/20/05)		
8-2-301	Limitations on Total Carbon Emissions	<u>NY</u>	
SIP Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (3/22/95)		
8-2-301	Limitations on Total Carbon Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	<u>NY</u>	
9-1-302	General Emission Limitations	<u>NY</u>	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	<u>NY</u>	
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 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (7/25/07)		
9-8-302	Emission Limits – Spark-Ignited Engines, Waste Derived Fuel Gas	N	
9-8-302.1	NOx Limits for Lean Burn Engines	N	
9-8-302.3	CO Limits	N	
<u>9-8-502</u>	<u>Recordkeeping</u>	<u>N</u>	
<u>9-8-502.3</u>	<u>For a minimum of 24 months from date of creation</u>	<u>N</u>	
9-8-503	Quarterly Demonstration of Compliance	N	
SIP Regulation 9, Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (12/15/97)		
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y	
9-8-302.1	NOx Limits for Lean Burn Engines	Y	
9-8-302.3	CO Limits	Y	

IV. Source-Specific Applicable Requirements

Table IV-A
Source Specific Applicable Requirements
S-37 Multi-Fuel Cogeneration Engine #1
S-39 Multi-Fuel Cogeneration Engine #3

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-502	Recordkeeping	<u>Y</u>	
40 CFR Part 63, Subpart A	National Emission Standards for Hazardous Air Pollutants- General Provisions (9/13/10)		
63.4	Prohibited activities and circumvention	<u>Y</u>	
63.5	Preconstruction review and notification requirements	<u>Y</u>	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	<u>Y</u>	
63.6	Compliance with standards and maintenance requirements	<u>Y</u>	
63.8	Monitoring requirements	<u>Y</u>	
63.10	Record keeping and reporting requirements	<u>Y</u>	
63.10(b)	General record keeping requirements	<u>Y</u>	
63.10(c)	Additional record keeping requirements for sources with continuous monitoring systems	<u>Y</u>	
63.10(d)	General reporting requirements	<u>Y</u>	
63.10(e)	Additional reporting requirements for sources with continuous monitoring systems	<u>Y</u>	
40 CFR Part 63 Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (8/20/10)		
63.6585	Am I subject to this part?	<u>Y</u>	
63.6585(a)	Applicable to stationary RICE	<u>Y</u>	
63.6585(c)	Applicable to area source of HAPs	<u>Y</u>	
63.6590	What parts of my plant does this subpart cover?	<u>Y</u>	
63.6590(a)	Affected source	<u>Y</u>	
63.6590(a)(1)(iii)	Threshold Date for Existing stationary RICE	<u>Y</u>	
63.6595	When do I have to comply with this subpart?	<u>Y</u>	
63.6595(a)(1)	Compliance Date for affected sources	<u>Y</u>	5/3/2013
63.6603	What emission limitations and operating limitations must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?	<u>Y</u>	
63.6603(a)	Operating limitations for existing stationary RICE located at an area source of HAP emissions	<u>Y</u>	5/3/2013

IV. Source-Specific Applicable Requirements

Table IV-A
Source Specific Applicable Requirements
S-37 Multi-Fuel Cogeneration Engine #1
S-39 Multi-Fuel Cogeneration Engine #3

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6625	What are my monitoring, installation, collection, operation, and maintenance requirements?	<u>Y</u>	5/3/2013
63.6625(e)6	An existing non-emergency, non-black start landfill or digester gas stationary RICE located at an area source of HAP emissions	<u>Y</u>	5/3/2013
63.6625(h)	Minimize engine idle time, not to exceed 30 minutes	<u>Y</u>	5/3/2013
63.6640	How do I demonstrate continuous compliance with the emission limitations and operating limitations?	<u>Y</u>	
63.6645	What notifications must I submit and when?	<u>Y</u>	
63.6645(a)(2)	Existing stationary RICE located at an area source of HAP emissions	<u>Y</u>	
63.6655	What Records must I keep?	<u>Y</u>	
63.6655(c)(3)	Keep records of your daily fuel usage monitors	<u>Y</u>	
63.6655(d)	Keep records required in Table 6	<u>Y</u>	
63.6660	In what form and how long must I keep records?	<u>Y</u>	
Table 2d to Subpart ZZZZ	Requirements for existing Stationary RICE Located at Area Sources of HAP Emissions	<u>Y</u>	
Table 2.d.11a	Change oil and filter every 1440 hours of operation	<u>Y</u>	
Table 2.d.11b	Inspect spark plugs every 1440 hours of operation	<u>Y</u>	5/3/2013
Table 2.d.11c	Inspect all hoses and belts every 1440 hours of operation	<u>Y</u>	5/3/2013
Table 6 to Subpart ZZZZ	Continuous Compliance with Emission Limitations, Operating Limitations, Work Practices, and Management Practices	<u>Y</u>	5/3/2013
Table 6 9.a.	Work or Management Practices	<u>Y</u>	
BAAQMD Condition # 18860			
Part 1	Emissions shall be abated at all times (Basis: Regulations 1-301, 8-2-301)	<u>N</u>	
BAAQMD Condition # 20651			
Part 10	NOx Limit (9-8-302)	N	
Part 11	CO Limit (9-8-302)	N	

IV. Source-Specific Applicable Requirements

Table IV-A
Source Specific Applicable Requirements
S-37 Multi-Fuel Cogeneration Engine #1
S-39 Multi-Fuel Cogeneration Engine #3

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 12	Allowable Fuel: Digester Gas and/or Natural Gas with Diesel Pilot (Cumulative Increase)	Y	
Part 13	Thermal Capacity Limitation (Cumulative Increase)	Y	
Part 14	Annual Hours of Operation (Cumulative Increase)	Y	
Part 15	Diesel Throughput Limitation (Cumulative Increase)	Y	
Part 16	Deleted		
Part 17	Deleted	Y	
Part 18	Recordkeeping (2-6-409.2, 2-6-501)	Y	
Part 19	Annual Performance Test Requirement (2-6-409.2)	Y	
Part 20	Records Retention (2-6-409)	Y	

IV. Source-Specific Applicable Requirements

Table IV-B
Source Specific Applicable Requirements
S-38 Multi-Fuel Cogeneration Engine #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)		
6-1-303	Ringelmann No. 2 Limitation	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Particulate concentration corrected to 6% oxygen, dry basis	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-303	Ringelmann No. 2 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Particulate concentration corrected to 6% oxygen, dry basis	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (7/20/05)		
8-2-301	Limitations on Total Carbon Emissions	<u>NY</u>	
SIP Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (3/22/95)		
8-2-301	Limitations on Total Carbon Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	<u>NY</u>	
9-1-302	General Emission Limitations	<u>NY</u>	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	<u>NY</u>	
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	

IV. Source-Specific Applicable Requirements

Table IV-B
Source Specific Applicable Requirements
S-38 Multi-Fuel Cogeneration Engine #2

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9, Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (7/25/07)		
9-8-302	Emission Limits – Spark-Ignited Engines, Waste Derived Fuel Gas	N	
9-8-302.1	NOx Limits for Lean Burn Engines	N	
9-8-302.3	CO Limits	N	
<u>9-8-502</u>	<u>Recordkeeping</u>		
<u>9-8-502.3</u>	<u>For a minimum of 24 months from date of creation</u>	<u>N</u>	
9-8-503	Quarterly Demonstration of Compliance	N	
SIP Regulation 9, Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (12/15/97)		
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y	
9-8-302.1	NOx Limits for Lean Burn Engines	Y	
9-8-302.3	CO Limits	Y	
<u>9-8-502</u>	<u>Recordkeeping</u>	<u>Y</u>	
40 CFR Part 63, Subpart A	<u>National Emission Standards for Hazardous Air Pollutants- General Provisions (9/13/10)</u>		
<u>63.4</u>	<u>Prohibited activities and circumvention</u>	<u>Y</u>	
<u>63.5</u>	<u>Preconstruction review and notification requirements</u>	<u>Y</u>	
<u>63.5(b)</u>	<u>Requirements for existing, newly constructed, and reconstructed sources</u>	<u>Y</u>	
<u>63.6</u>	<u>Compliance with standards and maintenance requirements</u>	<u>Y</u>	
<u>63.8</u>	<u>Monitoring requirements</u>	<u>Y</u>	
<u>63.10</u>	<u>Record keeping and reporting requirements</u>	<u>Y</u>	
<u>63.10(b)</u>	<u>General record keeping requirements</u>	<u>Y</u>	
<u>63.10(c)</u>	<u>Additional record keeping requirements for sources with continuous monitoring systems</u>	<u>Y</u>	
<u>63.10(d)</u>	<u>General reporting requirements</u>	<u>Y</u>	
<u>63.10(e)</u>	<u>Additional reporting requirements for sources with continuous monitoring systems</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

Table IV-B
Source Specific Applicable Requirements
S-38 Multi-Fuel Cogeneration Engine #2

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR Part 63 Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (8/20/2010)		
63.6585	Am I subject to this part?	Y	
63.6585(a)	Applicable to stationary RICE	Y	
63.6585(c)	Applicable to area source of HAPs	Y	
63.6590	What parts of my plant does this subpart cover?	Y	
63.6590(a)	Affected source	Y	
63.6590(a)(1)(iii)	Threshold Date for Existing stationary RICE	Y	
63.6595	When do I have to comply with this subpart?	Y	
63.6595(a)(1)	Compliance Date for affected sources	Y	5/3/2013
63.6603	What emission limitations and operating limitations must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?	Y	
63.6603(a)	Operating limitations for existing stationary RICE located at an area source of HAP emissions	Y	
63.6625	What are my monitoring, installation, collection, operation, and maintenance requirements?	Y	
63.6625(e)6	An existing non-emergency, non-black start landfill or digester gas stationary RICE located at an area source of HAP emissions	Y	
63.6625(h)	Minimize engine idle time, not to exceed 30 minutes	Y	
63.6640	How do I demonstrate continuous compliance with the emission limitations and operating limitations?	Y	
63.6645	What notifications must I submit and when?	Y	
63.6645(a)(2)	Existing stationary RICE located at an area source of HAP emissions	Y	
63.6655	What Records must I keep?	Y	
63.6655(c)(3)	Keep records of your daily fuel usage monitors	Y	
63.6655(d)	Keep records required in Table 6	Y	
63.6660	In what form and how long must I keep records?	Y	
Table 2d to Subpart ZZZZ	Requirements for existing Stationary RICE Located at Area Sources of HAP Emissions	Y	

IV. Source-Specific Applicable Requirements

Table IV-B
Source Specific Applicable Requirements
S-38 Multi-Fuel Cogeneration Engine #2

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Table 2.d.11a	Change oil and filter every 1440 hours of operation	Y	
Table 2.d.11b	Inspect spark plugs every 1440 hours of operation	Y	
Table 2.d.11c	Inspect all hoses and belts every 1440 hours of operation	Y	
Table 6 to Subpart ZZZZ	Continuous Compliance with Emission Limitations, Operating Limitations, Work Practices, and Management Practices	Y	
Table 6 9.a.	Work or Management Practices	Y	
BAAQMD Condition # 18860			
Part 1	Emissions shall be abated at all times (Basis: Regulations 1-301, 8-2-301)	N	
BAAQMD Condition # 20651			
Part 6	NOx Limits (BACT)	Y	
Part 7	POC Limits (BACT)	Y	
Part 8	CO Limits (BACT)	Y	
Part 9	Filterable PM Limits (BACT)	Y	
Part 12	Allowable Fuel: Digester Gas and/or Natural Gas with Diesel Pilot (Cumulative Increase)	Y	
Part 13	Thermal Capacity Limitation (Cumulative Increase)	Y	
Part 14	Annual Hours of Operation (Cumulative Increase)	Y	
Part 15	Diesel Throughput Limitation (Cumulative Increase)	Y	
Part 16	Deleted		
Part 17	Deleted		
Part 18	Recordkeeping (2-6-409.2, 2-6-501)	Y	
Part 19	Annual Performance Test Requirement (2-6-409.2)	Y	
Part 20	Records Retention (2-6-409)	Y	

IV. Source-Specific Applicable Requirements

**Table IV-C
 Source Specific Applicable Requirements
 S-43 Wet Weather Primary Sludge Thickeners,
 S-45 Aerated Grit Building,
 S-47 Scum Thickening Building**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operation (7/20/05)		
8-2-301	Miscellaneous Operations Standards	<u>NY</u>	
SIP Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operations (3/22/95)		
8-2-301	Limitations on Total Carbon Emissions	<u>Y</u>	
BAAQMD Condition # 2409			
part 1	Consequences of Odor Complaints (Basis: BAAQMD Regulation 2-1-403)	N	

IV. Source-Specific Applicable Requirements

Table IV-D
Source Specific Applicable Requirements
S-48, Non Retail Gasoline Dispensing Facility GDF #9008

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds – Storage of Organic Liquids (10/18/06)		
8-5-116	Exemption, Gasoline Storage Tanks at Gasoline Dispensing Facilities	N	
SIP Regulation 8, Rule 5	Organic Compounds – Storage of Organic Liquids (6/5/03)		
8-5-116	Exemption, Gasoline Storage Tanks at Gasoline Dispensing Facilities	Y	
8-5-206	Gas tight	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-301	Storage Tank Control Requirements	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Pressure Setting	Y	
8-5-303.2	Gas Tight	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-501	Records	Y	
8-5-501.1	Types and amounts of materials stored	Y	
8-5-502	Tank Degassing Annual Source Test Requirement	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
BAAQMD Regulation 8, Rule 7	Organic Compounds - Gasoline Dispensing Facilities (11/6/02)		
8-7-113	Tank Gauging and Inspection Exemption		
8-7-114	Stationary Tank Testing Exemption		
8-7-116	Periodic Testing Requirements Exemption		
8-7-301	Phase I Requirements	Y	
8-7-301.1	Requirement for Transfer into Stationary Tanks, Cargo Tanks, and Mobile Refuelers -CARB Phase I System	Y	
8-7-301.2	Installation of Phase I Equipment per CARB Certification Requirements	Y	
8-7-301.3	Submerged Fill Pipes Requirements	Y	

IV. Source-Specific Applicable Requirements

Table IV-D
Source Specific Applicable Requirements
S-48, Non Retail Gasoline Dispensing Facility GDF #9008

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-7-301.5	Maintenance <u>and Operation</u> of Phase I Equipment per Manufacturers <u>and/or the applicable CARB Executive Order — Guidelines</u>	Y	
8-7-301.6	Leak-Free, Vapor-Tight <u>Requirements for Components</u>	Y	
8-7-301.7	<u>Fitting Requirements for Vapor Return Line</u> Poppeted Drybreaks	Y	
8-7-301.8	Coaxial Phase I Prohibition	Y	
8-7-301.9	Swivel Adaptors	Y	
8-7-301.10	98% Phase I Vapor Recovery Efficiency	Y	
8-7-301.12	Vapor Spill Box Drain Valve Prohibition	Y	
8-7-301.13	Annual Vapor Tightness Testing	Y	
8-7-302	Phase II Requirements	Y	
8-7-302.1	Requirement for CARB Certified Phase II System	Y	
8-7-302.2	Maintenance of Phase II System per CARB Requirements	Y	
8-7-302.3	Maintenance of All Equipment as Specified by Manufacturer	Y	
8-7-302.4	Repair of Defective Parts Within 7 Days	Y	
8-7-302.5	Leak-Free, Vapor-Tight	Y	
8-7-302.6	Nozzle Insertion Interlocks	Y	
8-7-302.7	Nozzle Vapor Check Valves	Y	
8-7-302.8	Liquid Removal Devices	Y	
8-7-302.9	Coaxial Hoses	Y	
<u>8-7-302.10</u>	<u>Construction Materials Specifications</u>		
<u>8-7-302.12</u>	<u>Liquid Retain Limitation</u>		
<u>8-7-302.13</u>	<u>Nozzle Spitting Limitation</u>		
<u>8-7-302.14</u>	<u>Annual Back Pressure Test Requirements for Balance Systems</u>		
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	Y	
8-7-306	Prohibition of Use	Y	
8-7-307	Posting of Operating Instructions	Y	
8-7-308	Operating Practices	Y	
8-7-309	Contingent Vapor Recovery Requirements	Y	
<u>8-7-311</u>	<u>Exempt Tank Requirements</u>	<u>Y</u>	
8-7-313	<u>Requirements for</u> New and Modified Phase II Installations	Y	

IV. Source-Specific Applicable Requirements

Table IV-D
Source Specific Applicable Requirements
S-48, Non Retail Gasoline Dispensing Facility GDF #9008

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-7-316	Pressure Vacuum Valves, Aboveground Storage Tanks <u>and Vaulted Below Grade Storage Tanks</u>	Y	
<u>8-7-401</u>	<u>Equipment Installation and Modification</u>		
<u>8-7-404</u>	<u>Certification of New Installations</u>	<u>Y</u>	
<u>8-7-406</u>	<u>Testing Requirements, New and Modified Installations</u>		
8-7-407	Periodic Testing Requirements	Y	
8-7-408	Periodic Testing Notification and Submission Requirements	Y	
8-7-501	Burden of Proof	Y	
8-7-502	Right of Access	Y	
8-7-503	Record Keeping Requirements	Y	
<u>8-7-503.1</u>	<u>Gasoline Throughput Records</u>	<u>Y</u>	
<u>8-7-503.2</u>	<u>Maintenance Records</u>	<u>Y</u>	
<u>8-7-503.3</u>	<u>Records Retention Time</u>	<u>Y</u>	
<u>40 CFR Part 63, Subpart A</u>	<u>National Emission Standards for Hazardous Air Pollutants- General Provisions (9/13/10)</u>		
<u>63.4</u>	<u>Prohibited activities and circumvention</u>	<u>Y</u>	
<u>63.5</u>	<u>Preconstruction review and notification requirements</u>	<u>Y</u>	
<u>63.5(b)</u>	<u>Requirements for existing, newly constructed, and reconstructed sources</u>	<u>Y</u>	
<u>63.6</u>	<u>Compliance with standards and maintenance requirements</u>	<u>Y</u>	
<u>63.8</u>	<u>Monitoring requirements</u>	<u>Y</u>	
<u>63.10</u>	<u>Record keeping and reporting requirements</u>	<u>Y</u>	
<u>63.10(b)</u>	<u>General record keeping requirements</u>	<u>Y</u>	
<u>63.10(c)</u>	<u>Additional record keeping requirements for sources with continuous monitoring systems</u>	<u>Y</u>	
<u>63.10(d)</u>	<u>General reporting requirements</u>	<u>Y</u>	
<u>63.10(e)</u>	<u>Additional reporting requirements for sources with continuous monitoring systems</u>	<u>Y</u>	
<u>40 CFR Part 63 Subpart CCCCC</u>	<u>National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities (1/24/2011)</u>		
<u>63.11110</u>	<u>What is the purpose of this subpart?</u>	<u>Y</u>	
<u>63.11111</u>	<u>Am I Subject to the requirements in this subpart</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

Table IV-D
Source Specific Applicable Requirements
S-48, Non Retail Gasoline Dispensing Facility GDF #9008

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.11111(a)	Each GDF that is located at an area source		
63.11111(c)	Monthly throughput of 10,000 gallons of gasoline or more-subject to 63.11117	Y	
63.11111(e)	Demonstrate their monthly throughput level as specified in 63.11112(d)	Y	
63.11111(i)	If throughput ever exceeds an applicable throughput threshold, the affected source will remain subject to the requirements for sources above the threshold	Y	
63.11112	What parts of my affected source does this subpart cover?	Y	
63.11112(a)	Gasoline storage tanks and associated equipment components in vapor or liquid gasoline service	Y	
63.11112(d)	An affected source is an existing affected source if it is not new or reconstructed	Y	
63.11113	When do I have to comply with this subpart?	Y	
63.11113(c)	If affected source becomes subject to control requirements in this subpart because of monthly throughput increases per 63.11111(c) , you must comply with standard no later than 3 years after the affected source is subject to control requirements	Y	
63.11113(e)(2)	For existing affected source, you must conduct the initial compliance test as specified in paragraphs (e)(2)(i)	Y	
63.11113(e)(2)(i)	For vapor balance systems installed on or before December 15, 2009, you must test no later than 180 days after the applicable compliance date specified in paragraph c of this section.	Y	
63.11115	What are my general duties to minimize emissions?	Y	
63.11115(b)	Keep applicable records and submit reports as specified in 63.11125(d) and 63.11126(b)	Y	
63.11116	Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline	Y	
63.11116(a)(1)	Minimize gasoline spills		
63.11116(a)(2)	Clean up spills as expeditiously as practicable	Y	
63.11116(a)(3)	Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use.	Y	
63.11116(a)(4)	Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices- such as oil/water separators	Y	

IV. Source-Specific Applicable Requirements

Table IV-D
Source Specific Applicable Requirements
S-48, Non Retail Gasoline Dispensing Facility GDF #9008

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.11117	Requirements for facilities with monthly throughput of 10,000 gallons of gasoline or more	Y	
63.11117(a)	Comply with the requirements in section 63.11116(a)		
63.11117(b)	Only load gasoline into storage tanks utilizing submerged filling as defined in 63.11132 and as specified below	Y	
63.11117(b)(1)	Submerged fill pipes installed on or before November 9, 2006 must be no more than 12 inches from the bottom of the tank.	Y	
63.11117(b)(3)	Submerged fill pipes not meeting the specifications of paragraph (b)(1) are allowed if the owner or operator can demonstrate that the liquid level in the tank is always above the entire opening of the fill pipe.	Y	
63.11117(3)(e)	You must submit the applicable notification as specified in 63.11124 (a)	Y	
63.11117(3)(f)	You must comply with the requirements of this subpart by the applicable dates contained in 63.11113	Y	
63.111120	What testing and monitoring requirements must I meet?	Y	
63.111120(b)	Under the provision 63.6(g) – you must demonstrate to the Administrator or delegated authority under paragraph 63.11131(a) of this subpart, the equivalency of their vapor balance system to that described in Table 1	Y	
63.111120(c)	Conduct of performance tests	Y	
63.111120(c)(1)	Demonstrate compliance with the leak rate and cracking pressure requirements specified		
63.111124	What notifications must I submit and when?	Y	
63.111124(a)(1)	Subject to notification requirements		
63.111124(a)(1)(i)	The name and address of the owner and operator	Y	
63.111124(a)(1)(ii)	The address (... physical location) of the GDF	Y	
63.111124(a)(1)(iii)	A statement that the notification is being submitted in response to this subpart and identifying the requirements in paragraphs (a) through (c) of 63.11117 that apply to you	Y	

IV. Source-Specific Applicable Requirements

Table IV-D
Source Specific Applicable Requirements
S-48, Non Retail Gasoline Dispensing Facility GDF #9008

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.111124(a)(3)	If prior to January 10, 2008, you are operating in compliance with an enforceable State, local or tribal rule or permit that requires submerged fill as specified in 63.11117(b), you are not required to submit an initial Notification or a Notification of Compliance Status under paragraph (a)(1) or paragraph (a)(2) of this section.	Y	
63.111125	What are my recordkeeping requirements?	Y	
63.111125(d)	Keep records as specified in paragraphs (d)(1) and (2) of this section		
63.111125(d)(1)	Records of the occurrence and duration of each malfunction of operation or of air pollution control and monitoring equipment	Y	
63.111125(d)(2)	Records of actions taken during periods of malfunction to minimize emissions in accordance with 63.11115(a)	Y	
63.111126	What are my reporting requirements?	Y	
63.111126(b)	Each owner or operator of an affected source under this subpart shall report by March 15 of each year, the number, duration and a brief description of each type of malfunction which occurred during the previous calendar year and which caused any applicable emission limitation to be exceeded.	Y	
Table 3 to Subpart CCCCCC of Part 63	Applicability of General Provisions	Y	
63.7(e)(1)	Conditions for conducting Performance Tests- 63.11120(c)	Y	
BAAQMD Condition # 21663	Gasoline Throughput Limit (Regulation 2-5-302)	N	
part 1	Throughput limit (Basis: BAAQMD Toxic Policy)	N	
BAAQMD Condition #16516 25107	Annual Leak Test (Regulation 8-7-407) Annual Pressure Decay (ST-38) Test	Y	
CARB Executive Order G-70-17-AD	Modification of Certification of the Emco Wheaton Balance Phase II Vapor Recovery System (5/6/93)		
Paragraph 9	Piping and Component Configurations		

IV. Source-Specific Applicable Requirements

Table IV-D
Source Specific Applicable Requirements
S-48, Non Retail Gasoline Dispensing Facility GDF #9008

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Paragraph 10	Nozzle Type Requirements for New Installations		
Paragraph 11	Dispensing Rate Limit		
Paragraph 12	Restrictions on Use of Nozzle Extenders		
Paragraph 13	Requirement to Comply with Other Agencies' Rules and Regulations		
Paragraph 14	Nozzle Performance Shall Conform to Certification		
Paragraph 15	Prohibition on Alteration of Equipment, Parts, Design, or Operation		
Paragraph 16	Operating and Maintenance Requirements		
CARB Executive Order G-70--161	Certification of Hoover Containment Systems, Incorporated Fuelmaster Aboveground Tank Vapor Recovery System (11/30/94)		
Paragraph 9	Tank Design Configuration Limitations	N	
Paragraph 10	Emergency Vent Leak Limit	N	
Paragraph 11	Requirement to Use ARB Certified Phase I and Phase II Systems	N	
Paragraph 12	Phase I Piping Configuration Requirements and Disconnection Leak Limit	N	
Paragraph 13	Coaxial Hose Routing Requirements for Liquid Trap Limitations	N	
Paragraph 14	P/V Valve Requirements	N	
Paragraph 15	Tank Insulation Requirements	N	
Paragraph 16	Tank Exterior Surface Requirements	N	
Paragraph 17	Requirement to Comply with Local Air District Rules	N	
Paragraph 18	Requirements for Deliveries from a Cargo Truck	N	
Paragraph 19	Leak Checking Requirements	N	
Paragraph 20	Requirement to Comply with Local Fire Official's Requirements	N	
Paragraph 21	Requirement to Comply with Other Agencies' Rules and Regulations	N	
Paragraph 22	Prohibition on Alteration of Equipment, Parts, Design, or Operation	N	
CARB Executive Order G-70-52-AM	Certification of Components for Red Jacket, Hirt, and Balance Phase II Vapor Recovery Systems (10/4/91)		
Paragraph 2	Test procedures for determining compliance of Phase II vapor recovery system (VRS)	N	

IV. Source-Specific Applicable Requirements

Table IV-D
Source Specific Applicable Requirements
S-48, Non Retail Gasoline Dispensing Facility GDF #9008

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Paragraph 10	Compliance with the applicable certification requirements and rules and regulations	N	
Paragraph 11	Components and alternative hose configurations certified hereby shall perform in actual use with the same effectiveness as the certification test system	N	
Paragraph 12	Any alternation of the equipment, parts, design, or operation of the configurations certified hereby is prohibited	N	
Paragraph 13	All nozzles approved with the Phase II VRS specified in this Executive Order shall be 100% performance checked at the factory including checks of proper functioning of all automatic shutoff mechanisms.	N	
CARB Executive Order VR-301-D	Standing Loss Control Vapor Recovery System for Existing Installations of Aboveground Storage Tanks		
Paragraph 6	Standing loss Vapor Recovery System is not to exceed 2.26 pounds of hydrocarbon per 1000 gallons of ullage per day when installed, operated and maintained as specified	N	
Paragraph 14	Standing Loss Requirements valid through May 1, 2013	N	

IV. Source-Specific Applicable Requirements

Table IV-E
Source-specific Applicable Requirements
S-49, Diesel Engine, Portable BUG, Allis Chalmers 3500 MKH, 134 hp
S-52 Diesel Engine BUG, Portable, Generac, 280 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 2	Permits—General Requirements (3/4/09)		
2-1-220.1	Portable Equipment; Single Site Time Limit	N	
BAAQMD Regulation 6, Rule 1	Particulate Matter—General Requirements (12/5/07)		
6-1-303	Ringelmann No. 2 Limitation	N	
6-1-305	Visible Particulates	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-303	Ringelmann No. 2 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	—Particulate concentration corrected to 6% oxygen, dry basis	Y	
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	
9-1-304	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)		
9-8-110.5	Exemption, Emergency Standby Engines	N	
9-8-330	Hours of Operation, Emergency Standby Engines	N	
9-8-331	Hours of Operation, Essential Public Service Standby Engines	N	
9-8-502.1	Recordkeeping, Demonstration of Emergency Standby Status	N	

IV. Source-Specific Applicable Requirements

Table IV-E
Source-specific Applicable Requirements
~~S-49, Diesel Engine, Portable BUG, Allis Chalmers 3500 MKII, 134 hp~~
~~S-52 Diesel Engine BUG, Portable, Generac, 280 hp~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-530	Monitoring and Recordkeeping, Emergency Standby Engines	N	
CCR Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater (2/26/04)		
93116.3(a)	Fuel Requirements, Portable Diesel Engines	N	
93116.3(b)(3)	Diesel PM Standards for Portable Emergency Use Engines	N	1/1/2020
BAAQMD Condition #19058			
Part 1	Eligibility Requirements (2-1-220)	Y	
Part 2	Single Site Operating Hours Limitation (2-1-220.1)	Y	
Part 3	Noncompliance Reporting (2-1-403)	Y	
Part 4	Diesel Fuel Requirements (CCR 93116.3 (a))	N	
Part 5	Deleted 12-15-04	Y	
Part 6	Public Nuisance (1-301)	Y	
Part 7	Limitation in Operation Near School (2-1-412)	Y	
Part 8	Recordkeeping (1-441, 9-8-530)	Y	
Part 9	Reporting (1-441)	Y	

IV. Source-Specific Applicable Requirements

Table IV-~~FE~~
Source Specific Applicable Requirements
S-50 Diesel Engine BUG, Detroit Diesel 1043731616, 238 hp
S-51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp
S-52 Diesel Engine BUG, Generac, 280 hp
S-53 Diesel Engine BUG, S/N 44852080, 277 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter - General Requirements (12/5/07)		
6-1-303	Ringelmann No. 2 Limitation	N	
<u>6-1-303.1</u>	<u>Internal combustion engines below 1500 cubic inches displacement or standby engines</u>	<u>N</u>	
6-1-305	Visible Particulates	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-303	Ringelmann No. 2 Limitation	Y	
<u>6-303.1</u>	<u>Internal combustion engines below 1500 cubic inches displacement or standby engines</u>	<u>Y</u>	
6-310	Particulate Weight Limitation	Y	
6-310.3	Particulate concentration corrected to 6% oxygen, dry basis	Y	
6-401	Appearance of Emissions	Y	
<u>BAAQMD Regulation 8, Rule 1</u>	<u>Organic Compounds – General Provisions (6/15/94)</u>		
<u>8-1-110.2</u>	<u>Exemptions – Internal Combustion Engine</u>	<u>Y</u>	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	<u>NY</u>	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	<u>NY</u>	
SIP Regulation 9, Rule 1	<u>Inorganic Gaseous Pollutants, Sulfur Dioxide (6/8/99)</u>		
<u>9-1-301</u>	<u>Limitations on Ground Level Concentrations</u>	<u>Y</u>	
<u>9-1-304</u>	<u>Fuel Burning (Liquid and Solid Fuels)</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

Table IV-~~FE~~
Source Specific Applicable Requirements
S-50 Diesel Engine BUG, Detroit Diesel 1043731616, 238 hp
S-51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp
S-52 Diesel Engine BUG, Generac, 280 hp
S-53 Diesel Engine BUG, S/N 44852080, 277 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9, Rule 8	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (7/25/07)		
9-8-110.5	Exemption, Emergency Standby Engines	N	
9-8-330	Hours of Operation, Emergency Standby Engines	N	
<u>9-8-330.1</u>	<u>For Emergency Use</u>	<u>N</u>	
<u>9-8-330.3</u>	<u>For Reliability-Related Activities</u>	<u>N</u>	
9-8-331	Hours of Operation, Essential Public Service Standby Engines	N	
<u>9-8-331.1</u>	<u>For Emergency Use</u>	<u>N</u>	
<u>9-8-502</u>	<u>Recordkeeping</u>	<u>N</u>	
9-8-502.1	Recordkeeping, Demonstration of Emergency Standby Status- <u>For Exempt Engines</u>	N	
9-8-530	Monitoring and Recordkeeping, Emergency Standby Engines; Non-resettable Totalizing Meter	N	
<u>9-8-530.1</u>	<u>Hours of Operation (total)</u>	<u>N</u>	
<u>9-8-530.2</u>	<u>Hours of Operation (emergency)</u>	<u>N</u>	
<u>9-8-530.3</u>	<u>Nature of Each Emergency Condition</u>	<u>N</u>	
SIP Regulation 9, Rule 8	<u>Inorganic Gaseous Pollutants- Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (12/15/97)</u>		
<u>9-8-101</u>	<u>This rule does not apply to emergency generators- Reg 1-110.2</u>	<u>Y</u>	
40 CFR Part 63, Subpart A	<u>National Emission Standards for Hazardous Air Pollutants- General Provisions (9/13/10)</u>		
<u>63.4</u>	<u>Prohibited activities and circumvention</u>	<u>Y</u>	
<u>63.5</u>	<u>Preconstruction review and notification requirements</u>	<u>Y</u>	
<u>63.5(b)</u>	<u>Requirements for existing, newly constructed, and reconstructed sources</u>	<u>Y</u>	
<u>63.6</u>	<u>Compliance with standards and maintenance requirements</u>	<u>Y</u>	
<u>63.8</u>	<u>Monitoring requirements</u>	<u>Y</u>	
<u>63.10</u>	<u>Record keeping and reporting requirements</u>	<u>Y</u>	
<u>63.10(b)</u>	<u>General record keeping requirements</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

Table IV-~~FE~~
Source Specific Applicable Requirements
S-50 Diesel Engine BUG, Detroit Diesel 1043731616, 238 hp
S-51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp
S-52 Diesel Engine BUG, Generac, 280 hp
S-53 Diesel Engine BUG, S/N 44852080, 277 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.10(c)	Additional record keeping requirements for sources with continuous monitoring systems	<u>Y</u>	
63.10(d)	General reporting requirements	<u>Y</u>	
63.10(e)	Additional reporting requirements for sources with continuous monitoring systems	<u>Y</u>	
40 CFR Part 63 Subpart <u>ZZZZ</u>	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (8/20/10)		
63.6585	Am I subject to this part?	<u>Y</u>	
63.6585(a)	Applicable to stationary RICE	<u>Y</u>	
63.6585(c)	Applicable to area source of HAPs	<u>Y</u>	
63.6590	What parts of my plant does this subpart cover?	<u>Y</u>	
63.6590(a)	Affected source	<u>Y</u>	
63.6590(a)(1)(iii)	Threshold Date for Existing stationary RICE	<u>Y</u>	
63.6595	When do I have to comply with this subpart?	<u>Y</u>	
63.6595(a)(1)	Compliance Date for affected sources	<u>Y</u>	5/3/13
63.6603	What emission limitations and operating limitations must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?	<u>Y</u>	
63.6603(a)	Operating limitations for existing stationary RICE located at an area source of HAP emissions	<u>Y</u>	
63.6625	What are my monitoring, installation, collection, operation, and maintenance requirements?	<u>Y</u>	
63.6625(e)(3)	Operate and maintain the stationary RICE according to manufacturer's emission related instructions	<u>Y</u>	
63.6625(f)	Install a non-resettable hour meter if one is not already installed	<u>Y</u>	
63.6625(h)	Minimize engine idle time, not to exceed 30 minutes	<u>Y</u>	5/3/13
63.6640	How do I demonstrate continuous compliance with the emission limitations and operating limitations?	<u>Y</u>	
63.6640(f)	Requirements for emergency stationary RICE	<u>Y</u>	5/3/13

IV. Source-Specific Applicable Requirements

Table IV-~~FE~~
Source Specific Applicable Requirements
S-50 Diesel Engine BUG, Detroit Diesel 1043731616, 238 hp
S-51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp
S-52 Diesel Engine BUG, Generac, 280 hp
S-53 Diesel Engine BUG, S/N 44852080, 277 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6640(f)(1)(i)	No time limit on use during emergency situations	Y	5/3/13
63.6640(f)(1)(ii)	Maintenance checks and readiness testing annual hour limit	Y	5/3/13
63.6640(f)(1)(iii)	Non-emergency operation annual hour limit	Y	
63.6645	What notifications must I submit and when?	Y	
63.6645(a)(5)	Notification requirements do not apply to this source	Y	
63.6655	What Records must I keep?	Y	
63.6655(e)(2)	Maintenance	Y	
63.6655(f)(2)	Hours of operation	Y	
63.6660	In what form and how long must I keep records?	Y	
Table 2d to Subpart ZZZZ	Requirements for existing Stationary RICE Located at Area Sources of HAP Emissions	Y	5/3/13
Table 2d 4.a.	Schedule for oil and filter change	Y	5/3/13
Table 2d 4.b.	Schedule for air cleaner inspection	Y	5/3/13
Table 2d 4.c.	Schedule for hose and belt inspection	Y	5/3/13
Table 6 to Subpart ZZZZ	Continuous Compliance with Emission Limitations, Operating Limitations, Work Practices, and Management Practices	Y	5/3/13
Table 6 9.a.	Work or Management Practices	Y	5/3/13
CCR Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines (10/18/075/19/11)		
93115.5(b)	Fuel requirements, in-use emergency standby diesel CI engines	N	
§93115.6	Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	N	
§93115.6(b)	For In-Use Emergency Standby Diesel Fueled CI Engines	N	
93115.6(b)(3)	Emission Standards and Operating Requirements	N	
93115.6(b)(3) A	Diesel PM Standards and Hours of Operation Limitations	N	
93115.6(b)(3) (A)(1)	General Requirements	N	

IV. Source-Specific Applicable Requirements

Table IV-~~FE~~
Source Specific Applicable Requirements
S-50 Diesel Engine BUG, Detroit Diesel 1043731616, 238 hp
S-51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp
S-52 Diesel Engine BUG, Generac, 280 hp
S-53 Diesel Engine BUG, S/N 44852080, 277 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.6(b)(3)(A)(1)(a)	Limited to 20 hours of operating per year for maintenance and testing purposes for engines that emit Diesel PM >0.4 g/bhp-hr (applies to S-52)	N	
93115.6(b)(3)(A)(1)(b)	Limited to 30 hours of operating per year for maintenance and testing purposes For Engines That Emit Diesel PM Less Than or Equal to 0.40 g/bhp-hr: Operating Hour Limit for Reliability Related Activities (Note that HC, NOx, NMHC+NOx, and CO are not limited for this engine) (applies to S-50 and S-53)	N	
93115.6(b)(3)(A)(2)(b)	Allow in-use stationary emergency standby diesel fueled CI engines >50 HP to operate no more than 50 hours per year for maintenance and testing if diesel PM emission rate is less than or equal to 0.15 g/bhp-hr (applies to S-51)	N	
93115.10	Recordkeeping, Reporting, and Monitoring Requirements	N	
93115.10(d)	Monitoring Equipment	N	
93115.10(d)(1)	Non-Resettable Hour Meter	N	
93115.10(f)	Reporting Requirements for Emergency Standby-Engines	N	
93115.10(f)(1)	Records and Monthly Summary	N	
93115.10(f)(2)	Records Retention and Availability	N	
93115.12	Compliance Schedule for Owners or Operators of Four or More Engines (>50 bHP) located within the District	N	
93115.12(a)	Subject to requirements of 93115.6(b) –subject to meet compliance with annual hours of operation limits	N	1/1/2006
BAAQMD Condition # 22820	(applies to S-52)		
Part 1	Operating Time Limitation (CCR 93115.6(b)(3)(A)(1)(a))	N	
Part 2	Other Operational Limitations (CCR 93115.6(b)(3)(A)(1)(a))	N	
Part 3	Meter Requirements (CCR, Title 17, Section 93115.10(d)(1))	N	
Part 4	Record Keeping Requirements (CCR, Title 17, Section 93115.10(f) or Regulation 2-6-501)	N	

IV. Source-Specific Applicable Requirements

Table IV-~~FE~~
Source Specific Applicable Requirements
S-50 Diesel Engine BUG, Detroit Diesel 1043731616, 238 hp
S-51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp
S-52 Diesel Engine BUG, Generac, 280 hp
S-53 Diesel Engine BUG, S/N 44852080, 277 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>Part 5</u>	<u>At School and Near School Operating Limitations (CCR, Title 17, Section 93115.6(b)(2))</u>	<u>N</u>	
BAAQMD Condition #19040 22830	<u>(applies to S-50 and S-53)</u>		
Part 1	Hours of Operation <u>Operating Time Limitation (CCR 93115.6(b)(3)(A)(1)(b))</u>	N	
Part 2	Definition of Emergency Use (9-8-231) <u>Other Operational Limitations (CCR 93115.6(b)(3)(A)(1)(b))</u>	Y	
Part 3	Definition of Reliability Related Activities (9-8-232) <u>Meter Requirements (CCR, Title 17, Section 93115.10(d)(1))</u>	Y	
Part 4	Diesel Fuel Requirements (CCR 93115.5(b), CCR 93115.10(e)(G)(1)) <u>Record Keeping Requirements (CCR, Title 17, Section 93115.10(f) or Regulation 2-6-501)</u>	N	
Part 5	Monitoring (CCR 93115.10(e)(1)) <u>At School and Near School Operating Limitations (CCR, Title 17, Section 93115.6(b)(2))</u>	N	
<u>BAAQMD Condition # 22850</u>	<u>(applies to S-51)</u>		
<u>Part 1</u>	<u>Operating Time Limitation (CCR 93115.6(b)(3)(A)(2)(b))</u>	<u>N</u>	
<u>Part 2</u>	<u>Other Operational Limitations (CCR 93115.6(b)(3)(A)(2)(b))</u>	<u>N</u>	
<u>Part 3</u>	<u>Meter Requirements (CCR, Title 17, Section 93115.10(d)(1))</u>	<u>N</u>	
<u>Part 4</u>	<u>Record Keeping Requirements (CCR, Title 17, Section 93115.10(f) or Regulation 2-6-501)</u>	<u>N</u>	
<u>Part 5</u>	<u>At School and Near School Operating Limitations (CCR, Title 17, Section 93115.6(b)(2))</u>	<u>N</u>	

IV. Source-Specific Applicable Requirements

Table IV-GF
Source Specific Applicable Requirements
S-54 Diesel Engine BUG, Caterpillar 3412B, 1114 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter - General Requirements (12/5/07)		
6-1-303	Ringelmann No. 2 Limitation	N	
6-1-303.1	Internal combustion engines below 1500 cubic inches displacement or standby engines	<u>N</u>	
6-1-305	Visible Particulates	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-303	Ringelmann No. 2 Limitation	Y	
6-303.1	Internal combustion engines below 1500 cubic inches displacement or standby engines	<u>Y</u>	
6-310	Particulate Weight Limitation	Y	
6-310.3	Particulate concentration corrected to 6% oxygen, dry basis	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8 Rule 1	Organic Compounds – General Provisions (6/15/94)		
8-1-110.2	Exemptions – Internal Combustion Engine		
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	<u>NY</u>	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	<u>NY</u>	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)		
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)		

IV. Source-Specific Applicable Requirements

**Table IV- GF
 Source Specific Applicable Requirements
 S-54 Diesel Engine BUG, Caterpillar 3412B, 1114 hp**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-110.5	Exemption, Emergency Standby Engines	N	
9-8-330	Hours of Operation, Emergency Standby Engines	N	
<u>9-8-330.1</u>	<u>For Emergency Use</u>	<u>N</u>	
<u>9-8-330.3</u>	<u>For Reliability-Related Activities</u>	<u>N</u>	
9-8-331	Hours of Operation, Essential Public Service Standby Engines	N	
<u>9-8-331.1</u>	<u>For Emergency Use</u>	<u>N</u>	
9-8-502.1	Recordkeeping, Demonstration of Emergency Standby Status	N	
9-8-530	Monitoring and Recordkeeping, Emergency Standby Engines	N	
<u>9-8-530.1</u>	<u>Hours of Operation (total)</u>	<u>N</u>	
<u>9-8-530.2</u>	<u>Hours of Operation (emergency)</u>	<u>N</u>	
<u>9-8-530.3</u>	<u>Nature of Each Emergency Condition</u>	<u>N</u>	
SIP Regulation 9, Rule 8	<u>Inorganic Gaseous Pollutants- Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (12/15/97)</u>		
<u>9-8-101</u>	<u>This rule does not apply to emergency generators- Reg 1-110.2</u>	<u>Y</u>	
40 CFR Part 63, Subpart A	<u>National Emission Standards for Hazardous Air Pollutants- General Provisions (9/13/10)</u>		
<u>63.4</u>	<u>Prohibited activities and circumvention</u>	<u>Y</u>	
<u>63.5</u>	<u>Preconstruction review and notification requirements</u>	<u>Y</u>	
<u>63.5(b)</u>	<u>Requirements for existing, newly constructed, and reconstructed sources</u>	<u>Y</u>	
<u>63.6</u>	<u>Compliance with standards and maintenance requirements</u>	<u>Y</u>	
<u>63.8</u>	<u>Monitoring requirements</u>	<u>Y</u>	
<u>63.10</u>	<u>Record keeping and reporting requirements</u>	<u>Y</u>	
<u>63.10(b)</u>	<u>General record keeping requirements</u>	<u>Y</u>	
<u>63.10(c)</u>	<u>Additional record keeping requirements for sources with continuous monitoring systems</u>	<u>Y</u>	
<u>63.10(d)</u>	<u>General reporting requirements</u>	<u>Y</u>	
<u>63.10(e)</u>	<u>Additional reporting requirements for sources with continuous monitoring systems</u>	<u>Y</u>	
40 CFR Part 63 Subpart <u>ZZZZ</u>	<u>National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (8/20/10)</u>		

IV. Source-Specific Applicable Requirements

Table IV- ~~GE~~
Source Specific Applicable Requirements
S-54 Diesel Engine BUG, Caterpillar 3412B, 1114 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6585	Am I subject to this part?	Y	
63.6585(a)	Applicable to stationary RICE	Y	
63.6585(c)	Applicable to area source of HAPs	Y	
63.6590	What parts of my plant does this subpart cover?	Y	
63.6590(a)	Affected source	Y	
63.6590(a)(1)(iii)	Threshold Date for New stationary RICE	Y	
63.6595	When do I have to comply with this subpart?	Y	
63.6595(a)(1)	Compliance Date for affected sources	Y	5/3/13
63.6603	What emission limitations and operating limitations must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?		
63.6603(a)	Operating limitations for existing stationary RICE located at an area source of HAP emissions	Y	5/3/13
63.6625	What are my monitoring, installation, collection, operation, and maintenance requirements?	Y	
63.6625(e)(3)	Operate and maintain the stationary RICE according to manufacturer's emission related instructions	Y	
63.6625(f)	Install a non-resettable hour meter if one is not already installed		
63.6625(h)	Minimize engine idle time, not to exceed 30 minutes	Y	
63.6640	How do I demonstrate continuous compliance with the emission limitations and operating limitations?	Y	
63.6640(f)	Requirements for emergency stationary RICE	Y	
63.6640(f)(1)(i)	No time limit on use during emergency situations	Y	
63.6640(f)(1)(ii)	Maintenance checks and readiness testing annual hour limit	Y	
63.6640(f)(1)(iii)	Non-emergency operation annual hour limit	Y	
63.6645	What notifications must I submit and when?	Y	
63.6645(a)(5)	Notification requirements do not apply to this source	Y	
63.6655	What Records must I keep?	Y	
63.6655(e)(2)	Maintenance	Y	
63.6655(f)(2)	Hours of operation	Y	
63.6660	In what form and how long must I keep records?	Y	

IV. Source-Specific Applicable Requirements

Table IV- ~~GF~~
Source Specific Applicable Requirements
S-54 Diesel Engine BUG, Caterpillar 3412B, 1114 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Table 2d to Subpart ZZZZ	Requirements for existing Stationary RICE Located at Area Sources of HAP Emissions	Y	
Table 2d 4.a.	Schedule for oil and filter change	Y	
Table 2d 4.b.	Schedule for air cleaner inspection	Y	
Table 2d 4.c.	Schedule for hose and belt inspection	Y	
Table 6 to Subpart ZZZZ	Continuous Compliance with Emission Limitations, Operating Limitations, Work Practices, and Management Practices	Y	
Table 6 9.a.	Work or Management Practices	Y	
CCR Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines (10/18/075/19/11)		
93115.5(b)	Fuel requirements, in-use emergency standby diesel CI engines	N	
93115.6	Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	N	
93115.6(b)	For In-Use Emergency Standby Diesel Fueled CI Engines	N	
93115.6(b)(3)	Emission Standards and Operating Requirements	N	
93115.6(b)(3) A	Diesel PM Standards and Hours of Operation Limitations	N	
93115.6(b)(3) (A)(2)(b)	Limited to 50 hours of operating per year for maintenance and testing purposes If the diesel PM emission rate is less than or equal to 0.15 g/bhp-hr.	N	
93115.10	Recordkeeping, Reporting, and Monitoring Requirements	N	
93115.10(d)	Monitoring Equipment		
93115.10(d)(1)	Non-resettable totalizing hour meter	N	
93115.10(f)	Reporting Requirements for Emergency Standby-Engines	N	
93115.10(f)(1)	Records and Monthly Summary	N	
93115.10(f)(2)	Records Retention and Availability	N	
93115.10(g)	Reporting requirements for emergency standby engines	N	
93115.12	Compliance Schedule for Owners or Operators of Four or More Engines (>50 bHP) located within the District	N	
93115.12(a)	Subject to requirements of 93115.6(b) –subject to meet compliance with annual hours of operation limits	N	
BAAQMD Condition #24733 22850			
Part 4	Hours of Operation (CCR 93115.6(b)(3)(A)(2)(b))	N	

IV. Source-Specific Applicable Requirements

Table IV- ~~GF~~
Source Specific Applicable Requirements
S-54 Diesel Engine BUG, Caterpillar 3412B, 1114 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	Definition of Emergency Use (9-8-231)	Y	
Part 3	Definition of Reliability Related Activities (9-8-232)	Y	
Part 4	Diesel Fuel Requirements (CCR 93115.5(b), CCR 93115.10(g)(G)(1))	N	
Part 5	Monitoring (CCR 93115.10(e)(1))	N	
Part 6	Recordkeeping (1-441, 9-8-530, CCR 93115.10(g))	Y	
Part 1	Operating Time Limitation (CCR 93115.6(b)(3)(A)(2)(a))	N	
Part 2	Other Operational Limitations (CCR 93115.6(b)(3)(A)(2)(a))	N	
Part 3	Meter Requirements (CCR, Title 17, Section 93115.10(d)(1))	N	
Part 4	Record Keeping Requirements (CCR, Title 17, Section 93115.10(f) or Regulation 2-6-501)	N	
Part 5	At School and Near School Operating Limitations (CCR, Title 17, Section 93115.6(b)(2))	N	

IV. Source-Specific Applicable Requirements

Table IV-HG
Source Specific Applicable Requirements
S-55: Hot Water Boiler

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter - General Requirements (12/5/07)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Heat Transfer Operation - Particulate Concentration Correction to 6% Oxygen, Dry	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation - Particulate Concentration Correction to 6% Oxygen, Dry	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (7/20/05)		
8-2-301	Limitations on Total Carbon Emissions	NY	
SIP Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (3/22/95)		
8-2-301	Limitations on Total Carbon Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	NY	
9-1-302	General Emission Limitations	NY	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)		
9-1-301	Limitations on Ground Level Concentrations	Y	

IV. Source-Specific Applicable Requirements

Table IV-HG
Source Specific Applicable Requirements
S-55: Hot Water Boiler

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-302	General Emission Limitations	Y	
BAAQMD Regulation 9, Rule 7	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (7/30/08/5/4/11)		
9-7-112	Limited Exemption, Low fuel Usage	N	
9-7-112.2	Uses less than 10% of annual maximum heat capacity in 12 month period	N	
9-7-301	Interim Emission Limits	N	
9-7-301.1	NOx Emissions Limit	N	
9-7-301.4	CO Emissions Limit	N	
9-7-307	Final Emissions Limits	N	
9-7-307.7	Emissions Limits – Digester Gas	N	4/1/2012
9-7-308	Compliance Schedule	N	
9-7-308.3	Effective Date 5 years after original manufacture date (May 2011) Manufacturer date May 2006	N	
9-7-311	Insulation Requirements- <u>not to exceed 120 °F</u>	N	
9-7-312	Stack Gas Temperature Limits	N	1/1/ 2011 2013
9-7-313	Tune-Up Requirements	N	
9-7-407	Identification	N	
9-7-503	Records	N	
9-7-503.1	Records of tune-ups	N	
9-7-503.5	Digester Gas, operating hours	N	
9-7-504	Low Fuel usage- Monitoring and Records	N	
9-7-504.1	Operate a non-resettable totalizing meter	N	
9-7-504.2	Annual fuel data record available for inspection	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)		
9-7-111	Limited Exemption, Low Fuel Usage	Y	
9-7-301	Emissions Limits – Gaseous Fuels	Y	
9-7-301.1	NOx Emissions Limit	Y	
9-7-301.2	CO Emissions Limit	Y	
9-7-304	Low Fuel Usage Requirements		

IV. Source-Specific Applicable Requirements

Table IV-HG
Source Specific Applicable Requirements
S-55: Hot Water Boiler

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-7-304.1	Maintain stack-gas oxygen concentration at < or equal to 3% by volume on a dry basis or	Y	
9-7-304.2	Tune at least once every 12 month	Y	
9-7-304.3	Meet emission limits specified in 9-7-301,302 or 303	Y	
9-7-503	Records	Y	
9-7-503.1	Documentation verifying annual tune-ups	Y	
9-7-503.3	Documentation verifying hours of equipment testing- during each calendar month	Y	
9-7-503.4	Results of source testing	Y	
9-7-504	Low Fuel Usage- Monitoring and Records	Y	
BAAQMD Condition # 18860			
Part 1	Emissions shall be abated at all times (Basis: Regulations 1-301, 8-2-301)	N	
BAAQMD Condition # 20651			
Part 1	Allowable fuel Type (Cumulative Increase)	Y	
Part 2	Maximum Allowable Operation: The Boiler S-55 shall not be operated simultaneously with 2 or more Engines (Cumulative Increase)	Y	
Part 3	Boiler Gross Heat Input Limit (Cumulative Increase)	Y	
Part 4	Deleted	N/A	
Part 5	NOx and CO Emission Limits (BACT)	Y	
Part 19	Annual Source Test, NOx and CO (Regulation 2-6-409.2)	Y	

IV. Source-Specific Applicable Requirements

Table IV-~~II~~
Source Specific Applicable Requirements
S-56, ~~S-57~~: Digester Gas Turbines #1 & #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 No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Particulate Concentration Correction to 6% Oxygen, Dry	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles		
6-310	Particulate Weight Limitation	Y	
6-310.3	Particulate Concentration Correction to 6% Oxygen, Dry	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (7/20/05)		
8-2-301	Limitations on Total Carbon Emissions	NY	
SIP Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (3/22/95)		
8-2-301	Limitations on Total Carbon Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants- Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	NY	
9-1-302	General Emission Limitations	NY	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
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	

IV. Source-Specific Applicable Requirements

Table IV-~~II~~
Source Specific Applicable Requirements
S-56, ~~S-57~~: Digester Gas Turbines #1 & #2

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9, Rule 9	Inorganic Gaseous Pollutants- Nitrogen Oxides from Stationary Gas Turbines (12/6/06)	Y	
9-9-113	Exemption- Inspection and Maintenance	N	
9-9-114	Exemption- Start-up and Shutdown	N	
9-9-115	Limited Exemption, Minor Inspection and Maintenance Work	N	
9-9-120	Interchangeable Emission Reduction Credits	N	
9-9-301.1.1	NOx Emissions Limits, Turbines rated 0.3 MW to less than 10.0 MW	N	
9-9-301.2	Emission Limits, Turbines 5 – 50 MM Btu/hr (Waste Gas Fired)	N	
9-9-301.3	If Turbine Burns Mixture of Fuels, Emission Limits Shall Be the Highest of the Limits Applicable to Any of the Fuel Mixtures	N	
9-9-301.4	Violation of Either of the Alternative Standards in Section 301.2 Shall Create a Rebuttable Presumption	N	
<u>9-9-302.1</u>	<u>Emission Limit, Low Usage</u>	<u>N</u>	
9-9-401	Efficiency Certification	N	
9-9-402.2	Comply with 9-9-301.2 by 1/1/2010, unless the turbine has not had a scheduled major maintenance outage by January 1, 2010	N	30 days after next scheduled major maintenance outage, or 1/1/2012
9-9-406	Other Useful Heat Recovery	N	
9-9-501	Monitoring and Recordkeeping requirements	N	
9-9-504	Annual Demonstration of Compliance	N	
9-9-605	Compliance with Output Based NOx Emission Standards	N	
SIP Regulation 9, Rule 9	Inorganic Gaseous Pollutants- Nitrogen Oxides from Stationary Gas Turbines (9/21/94 <u>12/15/97</u>)	Y	
9-9-113	Exemption- Inspection and Maintenance	Y	
9-9-114	Exemption- Start-up and Shutdown	Y	
9-9-301	Emission Limits, General	Y	
9-9-301.1	NOx Emissions Limits, Turbines rated 0.3 MW to less than 10.0 MW	Y	

IV. Source-Specific Applicable Requirements

Table IV-~~II~~
Source Specific Applicable Requirements
S-56, ~~S-57~~: Digester Gas Turbines #1 & #2

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-9-401	Efficiency Certification	Y	
9-9-501	Monitoring and Recordkeeping requirements	Y	
40 CFR Part 60 Subpart A	Standards of Performance for New Stationary Sources – <u>General Provisions (12/23/719/13/10)</u>	Y	
Subpart A	General Provisions	Y	
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		
60.7(a)(4)	Written notification of physical or operational changes	Y	
60.7(b)	Records	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.11(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Minimizing emissions	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General notification and reporting requirements	Y	
Subpart GG	Standards of Performance for Stationary Gas Turbines		
60.330	Applicability and designation of affected facility	Y	
60.332	Standard for nitrogen oxides	Y	
60.332(l)	Exemption from NOx standard – Regenerative Cycle Gas Turbines	Y	
60.333	Standard for sulfur oxides	Y	
60.333(a)	SO2 emissions limit	Y	
60.333(b)	Fuel sulfur limit	Y	
60.334	Monitoring of operations	Y	
60.334(h)(1)	Fuel sulfur content	Y	
60.334(h)(2)	Fuel Nitrogen content	Y	

IV. Source-Specific Applicable Requirements

Table IV-~~II~~
Source Specific Applicable Requirements
S-56, ~~S-57~~: Digester Gas Turbines #1 & #2

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.335	Test methods and procedures	Y	
<u>BAAQMD Condition # 18860</u>			
<u>Part 1</u>	<u>Emissions shall be abated at all times (Basis: Regulations 1-301, 8-2-301)</u>	<u>N</u>	
<u>BAAQMD Condition # 24050</u>			
Part 1	Fuel Requirement, digester gas only (Cumulative Increase)	Y	
Part 2	Maximum Fuel Input (Cumulative Increase)	Y	
Part 3	NOx Emissions Limit (BACT, Offsets, Cumulative Increase)	Y	
Part 4	CO Emissions Limit (BACT, Cumulative Increase)	Y	
Part 5	SO2 Emissions Limit (40 CFR Part 60 Subpart GG Section 60.333)	Y	
Part 6	Fuel Metering (Cumulative Increase)	Y	
Part 7	Source Test Requirements (BACT, Cumulative Increase, Regulation 9-9-301.1)	Y	
Part8	Periodic Flue Gas Testing (Cumulative Increase)	Y	
Part 9	Digester Gas BTU Content – Sampling (Cumulative Increase)	Y	
Part 10	Recordkeeping (Regulations 1-441, 2-6-501)	Y	

IV. Source-Specific Applicable Requirements

Table IV-JI
Source Specific Applicable Requirements
S-100, MUNICIPAL WASTEWATER TREATMENT PLANT,
120 MMGD DRY WEATHER FLOWRATE
325 MMGD WET WEATHER FLOWRATE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operation (7/20/05)		
8-2-301	Miscellaneous Operations	<u>NY</u>	
SIP Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operation (3/22/95)		
8-2-301	Miscellaneous Operations	Y	
BAAQMD Condition # 21759	Operating Requirements		
Part 1	Wastewater Throughput (Cumulative Increase)	Y	
Part 2	Consequences of odor complaints (1-301; Public Nuisance)	Y	
Part 3	Recordkeeping (2-6-409.2)	Y	

IV. Source-Specific Applicable Requirements

Table IV-KJ
Source Specific Applicable Requirements
S-110 Headworks; IPS; Barscreens

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operation (7/20/05)		
8-2-301	Miscellaneous Operations Standards	<u>NY</u>	
SIP Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operation (3/22/95)		
8-2-301	Miscellaneous Operations	Y	
BAAQMD Condition # 17335	Operating Requirements		
Part 1	Abatement Requirements (2-1-403)	N	
Part 2	Abatement Device - Maintenance of Abatement Efficiency (2-1-403)	N	
Part 3	Monitoring Parameters- Inlet & Outlet H2S Measurements (2-1-403)	N	
Part 4	Recordkeeping (2-1-403)	N	
Part 5	Consequences of Odor Complaints (2-1-403)	N	

IV. Source-Specific Applicable Requirements

Table IV- ~~LK~~
Source Specific Applicable Requirements
S-120 Primary Treatment, 16 Sedimentation Tanks
S-130 Secondary Treatment, 8 HPO Activated Sludge Units C/V
S-140 Secondary Clarifiers; 12 Clarifiers (mixed liquor)
S-160 Disinfection; Chlorination Contact Tanks, nonducted

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operation (7/20/05)		
8-2-301	Miscellaneous Operations Standards	NY	
SIP Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operation (3/22/95)		
8-2-301	Miscellaneous Operations	Y	

IV. Source-Specific Applicable Requirements

Table IV-~~ML~~
Source Specific Applicable Requirements
S-170 Sludge Handling: 3 WAS GBTs, 6 Dewatering Centrifuges

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operation (7/20/05)		
8-2-301	Miscellaneous Operations Standards	N <u>Y</u>	
SIP Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operation (3/22/95)		
8-2-301	Miscellaneous Operations	Y	
BAAQMD Condition #_18006	Operating Requirements		
Part 1	Activated Sludge Throughput: Monitoring & Recordkeeping required (Cumulative Increase)	Y	
Part 2	Abatement Requirements (1-301)	Y	
Part 3	Abatement Scrubber Maintenance (2-1-403)	Y	
Part 4	Recordkeeping (2-6-409.2)	Y	

IV. Source-Specific Applicable Requirements

Table IV-NM
Source Specific Applicable Requirements
S-180 Anaerobic Digesters; 12 Floating Cover Digesters

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operation (7/20/05)		
8-2-301	Miscellaneous Operations Standards	<u>NY</u>	
SIP Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operation (3/22/95)		
8-2-301	Miscellaneous Operations	Y	
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants - Hydrogen Sulfide (10/6/99)		
9-2-301	H2S ground-level concentration limitations	N	
BAAQMD Condition # 18860			
Part 1	Primary Abatement of Digester Gas (1-301, 8-2-301)	N	
Part 2	Secondary Abatement of Digester Gas (1-301, Cumulative Increase)	N	
Part 3	Digester Gas Sulfide ppm Limit (BACT)	N	
Part 4	Weekly Sulfide Content Monitoring (1-441)	N	
Part 5	Recordkeeping (2-6-409.2)	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

Any condition that is preceded by an asterisk is not federally enforceable. The following table lists the sources in order with their former and current condition number.

Source Number (s)	Former Condition #	Current Permit Condition #
37	20651	18860, 20651
38	20651	18860, 20651
39	20651	18860, 20651
43	2409	2409
45	2409	2409
47	2409	2409
48	16516	16516 25107, 21663
49	19058	19058
50	19040	19040 22830
51	21921	19040 22850
52	19184,19058	19058 22820
53	21924,19040	19040 22830
54	22850, 24733	24733 22850
55	N/A	18860, 20651
56	N/A	18860, 24050
57	N/A	18860, 24050
100	21759	21759
110	17335	17335
170	18006	18006
180	18860	18860

Condition #2409

S-43, Wet Weather Primary Sludge Thickeners

S-45, Aerated Grit Tanks

S-47, Scum Thickening Building

- *1. If the District receives more than five confirmed odor complaints within one month, the EBMUD shall take immediate action to remedy the odor problem. (Basis: BAAQMD Regulation 2-1-403)

VI. Permit Conditions

Condition 21663

S-48, GDF G-9008

Pursuant to BAAQMD Toxic Section Policy, this facility's annual gasoline throughput shall not exceed 334,000 gallons in any consecutive 12 month period. (Basis: ~~Toxic Risk Management Policy~~ [Regulation 2-5-302](#))

Condition ~~16516~~ [25107](#)

Source S-48 GDF G-9008

For each aboveground gasoline storage tank, the Static Pressure Performance Test (Leak Test) ST-38 shall be successfully conducted at least once in each twelve consecutive month period after the date of successful completion of the startup Static Pressure Performance Test.

The applicant shall notify Source Test by email at gdfnotice@baaqmd.gov or by FAX at (510) 758-3087, at least 48 hours prior to any testing required for permitting. Test results for all performance tests shall be submitted within fifteen (15) days of testing. Start-up test results submitted to the District must include the application number and the GDF number. (For annual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email (gdfresults@baaqmd.gov), FAX (510) 758-3087) or mail (BAAQMD Source Test Section, Attention Hiroshi Doi, 939 Ellis Street, San Francisco CA 94109). (Basis: Regulation 8-7-407)

VI. Permit Conditions

Condition #17335

S-110, Headworks: IPS, Barscreens, ducted to/abated by A-461 and/or A-462

- *1. Source S-110 shall be abated at all times by A-461 and/or A-462 carbon adsorber(s) to control emissions of H₂S unless the abatement device is removed from service for maintenance or regeneration purposes. Periods of operation without the use of A-461 or A-462 shall be minimized. (Basis: Regulation 2-1-403)
- *2. To ensure good H₂S abatement efficiency, EBMUD shall replace or regenerate the carbon adsorption bed in A-461 and/or A-462 upon determination that breakthrough is imminent or has been reached. (Basis: Regulation 2-1-403)
- *3. To ensure compliance with Part 2, the inlet and outlet H₂S concentrations, as well as any other appropriate operating parameters shall be continuously monitored and reviewed on a daily basis to determine when carbon adsorption bed breakthrough is imminent or has been reached. (Basis: Regulation 2-1-403)
- *4. Monitoring records shall be kept and maintained to document periods of shutdown of A-461 or A-462 and to demonstrate compliance with Parts 2 & 3 above. (Basis: Regulation 2-1-403)
- *5. If the District receives more than five confirmed odor complaints within one month, the EBMUD shall take immediate action to remedy the odor problem. (Basis: Regulation 2-1-403)

VI. Permit Conditions

Condition 18006

S-170, Sludge Handling; 3 W.A.S.GBT's, 6 Dewatering Centrifuges, Abated by A-7 or A-8 Atomized Mist Scrubber

1. Throughput
EBMUD shall monitor and record on a daily basis the activated sewage sludge throughput through S-170. (Basis: Cumulative Increase)
2. Abatement
All vapor emissions from S-170 shall be routed under negative pressure to A-7 or A-8 Atomized Mist Scrubber. (Basis: Cumulative Increase)
3. A-7 and A-8 Atomized Mist Scrubbers shall be properly maintained and kept in good operating condition at all times. (Basis: Regulation 2-1-403)
4. Records
To demonstrate compliance with the above conditions, EBMUD shall keep and maintain the following records in a District approved log: (Basis: Regulation 2-6-409.2)
 - a. Records of all inspections and all maintenance work on A-7 and A-8. Records of each inspection shall consist of a log containing the date of inspection and the initials of the personnel that inspected A-7 and/or A-8.
 - b. Records noting the occurrence and duration of any malfunction of A-7 or A-8, including the date, the suspected cause of the malfunction, and any action taken to restore normal operation.
 - c. All records shall be retained on-site for 5 years from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

VI. Permit Conditions

Condition 18860

S-180, Anaerobic Digesters

1. Emissions from S-180 shall be abated at all times by combustion at any or all of the following sources: S-56, ~~S-57~~, S-37, S-38, S-39, and S-55, except as specified in Part 2. (Basis: Regulations 1-301, 8-2-301)
2. Emissions from S-180 shall be abated by any of the following: A-190, A-191, A-192 or A-193 only when required as a result of gas production exceeding available combustion capacity, equipment testing, or emergency conditions. Fugitive or short-term unavoidable and incidental emissions of digester gas related to inherent digester design limitations, safety considerations or operational testing shall not be considered a violation of this part.

Inherent design limitations or standard operation and maintenance activities where incidental emissions of digester gas could be expected to include (but are not limited to) the following:

- a. Digester gas bubbling around the digester tank(s) floating roof sludge seals.
- b. Preventative maintenance on pressure relief valves to ensure proper operation.
- c. Manual draining of condensate from digester gas piping.
- d. Removing a digester or digester gas component from service.
- e. Collecting digester sludge samples through thief holes on digester covers.
- f. Digester gas diffusion through the Dystor membrane.
- g. Manual venting of digester gas through thief holes to avoid tipping of digester covers

If detected and known, the occurrence, duration and cause of all emissions of digester gas other than those due to inherent digester design limitations or standard operation and maintenance shall be recorded. The Permit Holder shall perform and record the results of a monthly visual inspection of each digester tank.

Notwithstanding the above, the Permit Holder shall not cause or allow any of the above fugitive or incidental emissions to create a violation or any District Regulation or ~~Toxic Risk Management Policy~~ [Regulation 2-5-302](#). (Basis: Regulation 1-301, Cumulative Increase)

3. Digester gas total sulfur content shall not exceed 340 ppmv. (Basis: BACT)

VI. Permit Conditions

4. The Permit Holder shall demonstrate compliance with the above limit by weekly sampling and testing of the digester gas according to any of the following methodologies (Basis: Regulation 1-441):
 - a. Draeger Tube Test Method: A Draeger Tube test or a meter using a Draeger H₂S sensor, Part No 680910, or equivalent, demonstrating an H₂S level up to 200 ppmv shall demonstrate compliance with the above limit. An H₂S measurement by Draeger Tube exceeding 200 ppmv shall not be deemed a violation but shall trigger a requirement to demonstrate compliance using either of the following methods b or c.
 - b. Portable Instrument Method: A Draeger PAC-III (or equivalent) portable meter with a hydrogen sulfide sensor capable of measuring over 800 ppmv hydrogen sulfide. In the event that sulfide levels exceed 800 ppm, the Permit Holder shall commence to perform a source test using method c, as follows.
 - c. Chromatographic Method: The Permit Holder may sample and test for sulfides according to BAAQMD Lab Method 44A (Manual of Procedures, Volume III), or by ASTM Method 5504, or by any other equivalent method, approved in advance by the APCO.

An application for a change of condition to allow an alternative method for sampling and testing of the digester gas for sulfides shall be handled as a minor revision to the Title V Permit.

5. The permit holder shall record the dates, hours of use, and purpose of flaring in a District-approved logbook, when any of the flares are used. (Basis: Regulation 2-6-409.2)

VI. Permit Conditions

Condition 19040

~~S-50, S-51, S-53 Emergency Backup Generators: Diesel Fired, Installed before May 17, 2000~~

1. ~~Hours of Operation~~

~~S-50, S-51, and S-53 shall only be operated to mitigate emergency conditions or for reliability related activities. Operation for reliability related activities shall not exceed 20 hours in any calendar year. Operation while mitigating emergency conditions is unlimited. [Basis: CCR 93115.6(b)(3)(A)(1)(a)]~~

2. ~~Emergency use is defined as the use of an emergency standby engine during any of the following: [Basis: Regulation 9-8-231]~~

a. ~~Loss of regular natural gas supply.~~

b. ~~Failure of regular electric power supply.~~

c. ~~Flood mitigation.~~

d. ~~Sewage overflow mitigation.~~

e. ~~Fire,~~

f. ~~Failure of a primary motor, but only for such time as needed to repair or replace the primary motor.~~

3. ~~Reliability related activities is defined as any of the following: [Basis: Regulation 9-8-232]~~

a. ~~Operation of an emergency standby engine to test its ability to perform for an emergency use, or~~

b. ~~Operation of an emergency standby engine during maintenance of a primary motor~~

4. ~~Only CARB Diesel fuel or approved alternative shall be combusted at these engines. The maximum sulfur content of the fuel shall be demonstrated by vendor certification. [Basis: CCR 93115.5(b), CCR 93115.10(g)(G)(1)]~~

5. ~~Monitoring~~

~~Each of these engines shall be equipped with a non-resettable totalizing meter that measures and records the hours of operation for the engine. This meter shall have a minimum display capability of 9,999 hours. [Basis: CCR 93115.10(e)(1)]~~

6. ~~Recordkeeping~~

~~The Permit Holder shall maintain the following monthly records for each engine in a District approved log. Records shall be maintained for at least 5 years from the date of entry. The Permit Holder shall make the log available for District inspection upon request. [Basis: Regulations 1-441, 9-8-530, CCR 93115.10(g)]~~

VI. Permit Conditions

- a. ~~Hours of operation (total)~~
- b. ~~Hours of operation (emergency).~~
- c. ~~For each emergency, the nature of the emergency condition.~~
- d. ~~Diesel sulfur records required in Part 4, above.~~
- e. ~~Monitoring records as noted in Part 5, above.~~

Condition 19058

~~S 49, S 52 Portable Standby Generators: Diesel Fired, Installed before May 17, 2000~~

1. ~~This portable equipment shall operate at all times in conformance with the eligibility requirements set forth in BAAQMD Regulation 2-1-220 for portable equipment. [Basis: Regulation 2-1-220]~~
2. ~~If the portable equipment remains at any fixed location in the Bay Area Air Basin for more than 12 months, the portable permit will automatically revert to a conventional permanent location BAAQMD permit and will lose its portability. [Basis: Regulation 2-1-220]~~
3. ~~Any violation of Part #1, above, shall be reported to the Director of the Compliance and Enforcement Division no later than two business days after the incidence. In addition, any loss of portability per Part #2 shall be reported to the Director of the Compliance and Enforcement Division no later than 30 days after the loss of its portability. [Basis: Regulation 2-1-403]~~
4. ~~Only CARB Diesel Fuel or approved alternative shall be combusted in these engines. The maximum sulfur content of the fuel shall be demonstrated by vendor certification. [Basis: CCR-93116.3(a)]~~
5. ~~Deleted 12-15-04, AN 3926.~~
6. ~~This equipment shall not emit emissions in sufficient quantities as to cause a public nuisance under Regulation 1-301. [Basis: Regulation 1-301]~~
7. ~~These engines shall not be operated for longer than 72 consecutive hours within 1,000 feet of a school. To operate for longer than 72 consecutive hours within 1,000 feet of a school, the Permit Holder must submit an application to the District so that proper notification of your intended operation can be made known to the affected public in advance of any continued usage of the equipment. [Basis: Regulation 2-1-412]~~

VI. Permit Conditions

~~8. Recordkeeping~~

~~The following records shall be kept in a District approved logbook and retained for a period of at least five years following the date of entry. The log shall be kept with the equipment and made available to District staff upon request. [Basis: Regulation 1-441, 9-8-530]~~

- ~~a. Monthly hours of operation or monthly fuel usage for each source.~~
- ~~b. The location(s) at which the equipment was operated for more than 72 consecutive hours including the dates operated at each location.~~
- ~~c. Diesel sulfur records required in Part 4, above.~~

~~9. Reporting~~

~~The Permit Holder shall notify the District, in writing, as soon as practicable, of the new location in which they intend to operate for longer than 72 consecutive hours. The notification shall include: [Basis: Regulation 1-441]~~

- ~~a. Brief description of the general nature of the operation.~~
- ~~b. The estimated duration of the operation at this site.~~
- ~~c. The name and phone number of a contact person where the equipment will be operated.~~

Condition 19184: Deleted, AN 18480

VI. Permit Conditions

Condition 20651

S-55, Hot Water Boiler

S-37, Multi-Fuel Cogeneration Engine #1

S-38, Multi-Fuel Cogeneration Engine #2

S-39, Multi-Fuel Cogeneration Engine #3

Conditions For S-55 Hot Water Boiler (parts 1 through 5)

1. Boiler S-55 shall be fired only on sewage sludge digester gas. (Basis: Cumulative Increase)
2. Boiler S-55 shall not be operated when more than two of the three cogeneration engines S-37, S-38, or S-39 are operating. (Basis: Cumulative Increase)
3. Boiler Gross Heat Input:
 - a. Deleted 7-2008 (AN 17749)
 - b. S-55: Not to exceed 20.41 million BTU/hr. (basis: Cumulative Increase)
4. Deleted 7-2008 (AN 17749)
5. NO_x and CO emissions from boiler S-55 shall not exceed 30 and 50 ppm, respectively, at 3% oxygen, dry basis. (Basis: BACT)

Conditions Specific to Cogeneration Engine S-38 (parts 6 through 9)

6. NO_x emissions, calculated as NO₂, shall not exceed 1.25 g/hp-hr, except during transient periods or in the event of catastrophic damage to the natural gas fuel supply, when the engine may be fired solely on diesel fuel. If a source test demonstrates nitrogen oxide Emissions greater than 1.0 g/hp-hr, but less than 1.25 g/hp-hr, the operator shall either conduct a second source test to verify the results of the first test, or shut down the engine for necessary maintenance. In the event the retest confirms an emission level greater than 1.0 g/hp-hr, the operator shall immediately shut down the engine for maintenance. (Basis: BACT)
7. The total POC emissions from S-38 shall not exceed 0.6 g/hp-hr, except during transient periods or in the event of catastrophic damage to the natural gas fuel supply, when the engine may be fired solely on diesel fuel.. (Basis: BACT)
8. The total CO emissions from S-38 shall not exceed 3.0 g/hp-hr, except during transient periods or in the event of catastrophic damage to the natural gas fuel supply, when the engine may be fired solely on diesel fuel. (Basis: BACT)

VI. Permit Conditions

9. Filterable particulate emissions from S-38 shall not exceed 0.085 g/hp-hr, except during transient periods or in the event of catastrophic damage to the natural gas fuel supply, when the engine may be fired solely on diesel fuel. (Basis: BACT)

Conditions Specific to Engines S-37 and S-39 (parts 10 through 11)

10. The total nitrogen oxide emissions from each of the engines S-37 and S-39, shall not exceed ~~14070~~ ppmvd @ 15% Oxygen. (Basis: Regulation 9-8-302)
11. The total carbon monoxide emissions from each of the engines, S-37 and S-39 shall not exceed 2000 ppmvd @ 15% Oxygen. (Basis: Regulation 9-8-302)

Conditions Specific to Engines S-37, S-38, S-39 (parts 12 through 15)

12. Cogeneration engines S-37, S-38, and S-39 shall be fired on sewage sludge digester gas, natural gas, or a blend of the two fuels, with a diesel pilot fuel. The engines may be fired solely on diesel fuel only during transient or emergency periods as defined below. (Basis: Cumulative Increase)

Transient Periods are defined as any of the following:

- a. Engine startup and/or engine shutdown.
- b. Post overhaul break-in periods.
- c. Preventative maintenance periods to prevent injector fouling as per engine manufacturer recommendations.

Emergencies are defined as loss of electrical power to the plant combined with a catastrophic damage to or interruption of the natural gas or digester gas fuel supplies to the extent that the engines are unable to continue operation.

13. Total thermal throughput shall not exceed ~~19.8-25~~MM Btu/hr per engine. (Basis: Cumulative Increase)
14. Total combined hours of operation of engines S-37, S-38, and S-39 shall not exceed 25,316 hours in any rolling 365 day period. (Basis: Cumulative Increase)
15. The total diesel fuel fed to engines S-37, S-38, and S-39 combined shall not exceed 150,000 gallons in any rolling 365 day period. (Basis: Cumulative Increase)
16. Deleted 7-2008 (AN 17749)

VI. Permit Conditions

17. Deleted 10-2006)
18. To determine compliance with the above conditions, the Permit Holder shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including the following information:
 - a. Daily records of the hours of operation of engines S-37, S-38, S-39 and boiler S-55.
 - b. Total digester gas, natural gas, and/or diesel consumption for the engines and boiler S-55.
 - c. Records of hours of operation during transient periods with an explanation of the nature of the transient period.
19. The owner/operator shall ensure that an annual performance test is conducted on each engine and the boiler S-55 in accordance with the District test procedures to demonstrate compliance with the applicable emissions limits given above.. The owner/operator may submit an alternative monitoring plan to the District for approval. If the alternative monitoring plan is approved, the plan shall supersede the annual source test requirement. Approvals shall be processed using the permit modification procedure contained in Regulation 2, Rule 6. (Basis: Regulation 2-6-409.2)
20. Records associated with the above requirements shall be maintained for a period of at least 5 years from the date of the inspection or test and be available for review by District personnel upon request. (Basis: Regulation 2-6-501)

VI. Permit Conditions

Condition 21663

S-48, GDF G-9008

Pursuant to BAAQMD Toxic Section Policy, this facility's annual gasoline throughput shall not exceed 334,000 gallons in any consecutive 12 month period. (Basis: Toxic Risk Management Policy)

Condition 21759

S-100, Municipal Wastewater Treatment Plant

1. Flowrate

Total wastewater flow shall not exceed 120 million gallons per day on a calendar month average during dry weather periods or 325 million gallons per day on a calendar month average during wet weather periods. For the purposes of this limit, wet weather is defined as the months from October through May. [Basis: Cumulative Increase]

2. Nuisance

In the event that a public nuisance odor source is identified at this facility, the Permit Holder shall employ all measures, practices, or modifications necessary to abate the nuisance. [Basis: Regulation 1-301]

3. Records

To demonstrate compliance with Part 1, above, the Permit Holder shall maintain the following records: [Basis: Regulation 2-6-409.2]

- a. Daily and monthly (calendar basis) records of the quantity of wastewater processed at this source.
- b. Monthly records shall be totaled for each consecutive 12-month period.
- c. All records shall be retained onsite for five years from the date of entry, and made available for inspection by District staff upon request.
- d. These recordkeeping requirements do not replace the recordkeeping requirements contained in any applicable District Regulations.

VI. Permit Conditions

Condition 21921: Deleted, AN 18480

Condition 21924: Deleted, AN 18480

Condition 22820

S-52 Emergency Backup Generator: Diesel Fired, Installed before May 17, 2000

1. The owner/operator shall not exceed 20 hours per year per engine for reliability-related testing. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.6 (b)(3)(A)(1)(a)]
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: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.6 (b)(3)(A)(1)(a)]
3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.10 (d)(1)]
4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 6 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
 - a. Hours of operation for reliability-related activities (maintenance and testing).
 - b. Hours of operation for emission testing to show compliance with emission limits.
 - c. Hours of operation (emergency).
 - d. For each emergency, the nature of the emergency condition.
 - e. Fuel usage for each engine(s).[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.10 (f) (or, Regulation 2-6-501)]

VI. Permit Conditions

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

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.6 (b)(2)]

Condition 22830

S-50, S-53 Emergency Backup Generators: Diesel Fired, Installed before May 17, 2000

1. The owner/operator shall not exceed 30 hours per year per engine for reliability-related testing. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.6 (b)(3)(A)(1)(b)]
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: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.6 (b)(3)(A)(1)(b)]
3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained. [Basis: "Stationary Diesel Engine ATCM" section

VI. Permit Conditions

93115, title 17, CA Code of Regulations, subsection 93115.10 (d)(1)]

4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 6 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
 - a. Hours of operation for reliability-related activities (maintenance and testing).
 - b. Hours of operation for emission testing to show compliance with emission limits.
 - c. Hours of operation (emergency).
 - d. For each emergency, the nature of the emergency condition.
 - e. Fuel usage for each engine(s).

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.10 (f) (or, Regulation 2-6-501)]

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

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.6 (b)(2)]

VI. Permit Conditions

Condition 22850

S-51, Emergency Backup Generators: Diesel Fired, Installed before May 17, 2000

S-54 Emergency Backup Generator: Diesel Fired- Installed November 2006

1. The owner/operator shall not exceed 50 hours per year per engine for reliability-related testing. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.6 (b)(3)(A)(2)(b)]
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: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.6 (b)(3)(A)(2)(b)]
3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.10 (d)(1)]
4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 6 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
 - a. Hours of operation for reliability-related activities (maintenance and testing).
 - b. Hours of operation for emission testing to show compliance with emission limits.
 - c. Hours of operation (emergency).
 - d. For each emergency, the nature of the emergency condition.
 - e. Fuel usage for each engine(s).[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.10 (f) (or, Regulation 2-6-501)]

VI. Permit Conditions

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

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.6 (b)(2)]

Condition 22850: Replaced with new permit condition, AN 18480

VI. Permit Conditions

Condition 24733: New Condition

~~S-54 Emergency Backup Generator: Diesel Fired, Caterpillar 3412B, 1114 HP~~

- ~~1. S-54 shall only be operated to mitigate emergency conditions or for reliability related activities. Operation for reliability related activities shall not exceed 50 hours in any calendar year. Operation while mitigating emergency conditions is unlimited. [Basis: CCR 93115.6(b)(3)(A)(2)(b)]~~
- ~~2. Emergency use is defined as the use of an emergency standby engine during any of the following: [Basis: Regulation 9-8-231]~~
 - ~~a. Loss of regular natural gas supply.~~
 - ~~b. Failure of regular electric power supply.~~
 - ~~c. Flood mitigation.~~
 - ~~d. Sewage overflow mitigation.~~
 - ~~e. Fire,~~
 - ~~f. Failure of a primary motor, but only for such time as needed to repair or replace the primary motor.~~
- ~~3. Reliability related activities is defined as any of the following: [Basis: Regulation 9-8-232]~~
 - ~~a. Operation of an emergency standby engine to test its ability to perform for an emergency use, or~~
 - ~~b. Operation of an emergency standby engine during maintenance of a primary motor~~
- ~~4. Only CARB Diesel fuel or approved alternative shall be combusted at this source. The maximum sulfur content of the fuel shall be demonstrated by vendor certification. [Basis: CCR 93115.5(b), CCR 93115.10(g)(G)(1)]~~
- ~~5. Monitoring~~

~~This engine shall be equipped with a non-resettable totalizing meter that measures and records the hours of operation for the engine. This meter shall have a minimum display capability of 9,999 hours. [Basis: CCR 93115.10(e)(1)]~~
- ~~6. Recordkeeping~~

~~The Permit Holder shall maintain the following monthly records for S-54 in a District approved log. Records shall be maintained for at least 5 years from the date of entry. The Permit Holder shall make the log available for District inspection upon request. [Basis: Regulations 1-441, 9-8-530, CCR 93115.10(g)]~~

VI. Permit Conditions

- a. ~~Hours of operation (total)~~
- b. ~~Hours of operation (emergency).~~
- c. ~~For each emergency, the nature of the emergency condition.~~
- d. ~~Diesel sulfur records required in Part 4, above.~~
- e. ~~Monitoring records as noted in Part 5, above.~~

VI. Permit Conditions

Condition 24050

S-56 Digester Gas Turbine #1, Solar Mercury 50 ultra-lean premix, recuperative 4.5 MW, 44.5 MM BTU/hr HHV

~~S-57 Digester Gas Turbine #2, Solar Mercury 50 ultra-lean premix, recuperative 4.5 MW, 44.5 MM BTU/hr HHV~~

1. Gas turbines S-56 ~~and S-57~~ shall be fired only on S-190 digester gas. (Basis: Cumulative Increase)
2. Total combined heat input to S-56 ~~and S-57~~ gas turbines shall not exceed 389,820 MM BTU HHV during any consecutive 12-month period. Until 12-months of operation is reached, the turbines shall be limited to the above BTU limit prorated for the number of months of operation. (Basis: Cumulative Increase)
3. Nitrogen Oxide (NO_x) emissions, calculated as NO₂, from sources S-56 ~~and S-57~~ shall not exceed 23 ppm (15-minute average), corrected to 15% oxygen and 34,400 lb per turbine during any consecutive 12-month period. Until 12 months of operation is reached, each turbine shall be limited to the above mass limit prorated for the number of months of operation. These limits are applicable during steady state turbine operation and are not applicable during normal transient periods of startup, shutdown, and turbine commissioning. (Basis: BACT, Offsets, Cumulative Increase)
4. Carbon Monoxide (CO) emissions during normal turbine operation, from sources S-56 ~~and S-57~~ shall not exceed 100 ppm (15-minute average), corrected to 15% oxygen and 92,200 lb per turbine during any consecutive 12-month period. Until 12 months of operation is reached, each turbine shall be limited to the above mass limit prorated for the number of months of operation. These limits are applicable during steady state turbine operation and are not applicable during normal transient periods of startup, shutdown, and turbine commissioning. (Basis: BACT, Cumulative Increase)
5. Sulfur Dioxide (SO₂) emissions from the gas turbines shall not exceed 150 ppmv, dry, corrected to 15% oxygen. The owner or operator may demonstrate compliance with this part by analyzing the exhaust gas of either turbine or by calculating the SO₂ concentration by mass balance based on the digester gas TRS concentration. The owner or operator shall determine and record the turbine SO₂ exhaust concentration at least one time every calendar month. (Basis: 40 CFR Part 60 Subpart GG Section 60.333)
6. The owner or operator shall install and maintain District-approved totalizing digester gas fuel meters on each turbine. (Basis: Cumulative Increase)

VI. Permit Conditions

7. To demonstrate initial compliance with parts 3, 4, and 5, above, the owner or operator shall, within 60 days of initial startup and annually thereafter perform a District-approved compliance source test at multiple loads as specified in 40 CFR 60.335, as applicable. The sample port design and locations shall be approved by the District Source Test Section prior to installation. The annual test shall be performed at a frequency of no sooner than 9 months and no later than 12 months after the previous source test. The annual source test shall be used to determine the following:
 - a. Digester gas flow rate to each turbine (dry basis).
 - b. Digester gas concentrations (dry basis) of carbon dioxide (CO₂), methane, total non-methane organic compounds (NMOC).
 - c. Exhaust gas flow rate from each gas turbine (dry basis).
 - d. Exhaust gas concentrations (dry basis) of NO_x, CO, NMOC, and O₂ in the stack gas.

The source test report shall provide the emissions results for NO_x, CO and NMOC in the following units: ppmv, dry, corrected to 15% oxygen, lb/hour, lb/MM BTU heat input (HHV basis), lb/yr (prorated with actual fuel usage). The source test protocol shall be provided for [Source Test Section] review at least 14 days in advance of the source test date. The Source Test Section shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Compliance and Enforcement Division and the Source Test Section within 60 days of the test date. (Basis: Cumulative Increase, BACT, Regulation 9-9-301.1, and 40 CFR 60.332(a))

8. To demonstrate ongoing compliance with parts 3 and 4, above, the owner or operator shall measure and record the 15 minute average concentrations of NO_x and CO, corrected to 15% oxygen, dry, from each operating turbine by testing the flue gas with a District-approved hand-held analyzer. This testing shall be performed at a frequency of at least one time per calendar month. When the owner or operator is conducting a single analytic event in a calendar month, the interval between subsequent tests shall be at least 25 days and not more than 35 days. The emissions of NO_x and CO shall be determined by mass balance using the analytic test results in conjunction with the turbine flue gas flow rate. When actual flue gas rate measurements are not available, the owner or operator shall assume 19.94 dscf flue gas per dscf digester gas, corrected to 15% oxygen, dry basis. (Basis: Cumulative Increase)

VI. Permit Conditions

When the owner or operator is conducting multiple tests of NO_x, CO and O₂ emissions, the monthly (15 minute average) concentrations of NO_x and CO shall be determined by averaging the results of the test measurements taken during the course of the month. When actual flue gas flow measurements are not available, the owner or operator shall assume 19.94 dscf flue gas per dscf digester gas, corrected to 15% oxygen, dry basis. (Basis: Cumulative Increase)

9. The owner or operator shall sample, test, and record the digester gas BTU content at least one time per calendar week during turbine operation. If 6 months of data testing indicates digester gas BTU content is within plus or minus 5% of the average, the sampling/testing frequency may be decreased to one time per calendar month, with successive monthly sample dates at least 2 weeks apart. (Basis: Cumulative Increase)

10. The owner or operator shall maintain records and provide all the data necessary to demonstrate compliance with the above parts, including the following information. (Basis: Regulation 1-441)
 - a. Monthly records of the quantity of digester gas (thousand scf) burned at each turbine.
 - b. Monthly records of the total thermal input in BTU.
 - c. Records of all NO_x and CO measurements (ppmvd, at 15% oxygen, and calculated lb/yr, as applicable) as well as all annual source test results.
 - d. All records shall be retained onsite for five years from the date of entry, and made available for inspection by District staff upon request.

These recordkeeping requirements do not replace the recordkeeping requirements contained in any applicable District Regulations.

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-37 Multi-Fuel Cogeneration Engine #1
S-39 Multi-Fuel Cogeneration Engine #3

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-8-302.1 SIP 9-8-302.1	Y N		140-70 ppmv @ 15% O2, dry	BAAQMD Cond. 20651, part 19	P/A	Source test
NOx	BAAQMD SIP 9-8-302.1	N Y	1/1/2012	70-140 ppmv @ 15% O2, dry	BAAQMD Cond. 20651, part 19	P/A	Source test
NOx	BAAQMD Condition 20651; part 10	Y N		140-70 ppmv @ 15% O2, dry	BAAQMD Cond. 20651, part 19	P/A	Source test
CO	BAAQMD 9-8-302.3 SIP 9-8-302.3	Y		2000 ppmv @ 15% O2, dry	BAAQMD Cond. 20651, part 19	P/A	Source test

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-A
Applicable Limits and Compliance Monitoring Requirements
S-37 Multi-Fuel Cogeneration Engine #1
S-39 Multi-Fuel Cogeneration Engine #3

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 Condition 20651, part 11	Y		2000 ppmv @ 15% O ₂ , dry	BAAQMD Cond. 20651, part 19	P/A	Source test
SO ₂	BAAQMD SIP 9-1-301	Y		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours	None	N	N
SO ₂	BAAQMD SIP 9-1-302	Y		300 ppm (dry)	BAAQMD Cond. 18860, part 4	P/W or M	Sulfur Content Testing
<u>Liquid Fuel Sulfur Content</u>	BAAQMD SIP 9-1-304	Y		Sulfur content of fuel <0.5% by weight	BAAQMD Cond. 20651, part 17 <u>None</u>	P/E <u>N</u>	Sulfur certifications or analysis <u>N</u>
Opacity	BAAQMD 6-1-303 SIP 6-303	Y		> Ringelmann 2.0 for no more than 3 min in any hour	<u>N</u>	N	<u>N</u>
FP	BAAQMD 6-1-310 <u>and SIP 6-310</u>	Y		0.15 gr/dscf	<u>N</u>	N	<u>N</u>
POC	BAAQMD 8-2-301 SIP 8-2-301	Y		≤ 15 lb/day or ≤ 300 ppm total carbon concentration	N	N	N
Fuel Input, Combined to S-37, 38, 39	BAAQMD Condition 20651, part 15	Y		150,000 gallons in any rolling 365 day period	BAAQMD Cond. 20651, part 18	P/D	Records
Thermal Throughput	BAAQMD Condition 20651, part 13	Y		19.8-25 MM Btu/hr per engine	BAAQMD Cond. 20651, part 18	P/D	Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-A
Applicable Limits and Compliance Monitoring Requirements
S-37 Multi-Fuel Cogeneration Engine #1
S-39 Multi-Fuel Cogeneration Engine #3

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Hours of Operation, S-37, 38, 39 Combined	BAAQMD Condition 20651, part 14	Y		25,316 hours in any rolling 365 day period	BAAQMD Cond. 20651, part 18	P/D	Records
<u>Idle Time</u>	<u>40 CFR 63.6625 (h)</u>	<u>Y</u>	<u>5/3/13</u>	<u><30 minutes for start-up</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Fuel Usage</u>	<u>40 CFR 63.6655c</u>	<u>Y</u>	<u>5/3/13</u>	<u>record of daily fuel usage monitors</u>	<u>40 CFR 63.6655(c)</u>	<u>D</u>	<u>Records</u>
<u>Maintenance Events</u>	<u>40 CFR Part 63, Subpart ZZZZ Table 2d 11a</u>	<u>Y</u>	<u>5/3/13</u>	<u>Change Oil and Filter Every 500 hours of operation or annually whichever comes first</u>	<u>40 CFR 63.6655(e)</u>	<u>P/E</u>	<u>Records</u>
<u>Maintenance Events</u>	<u>40 CFR Part 63, Subpart ZZZZ Table 2d 11b</u>	<u>Y</u>	<u>5/3/13</u>	<u>Inspect spark plugs every 1440 hours of operation or annually, whichever comes first</u>	<u>40 CFR 63.6655(e)</u>	<u>P/E</u>	<u>Records</u>
<u>Maintenance Events</u>	<u>40 CFR Part 63, Subpart ZZZZ Table 2d 11c</u>	<u>Y</u>	<u>5/3/13</u>	<u>Inspect all hoses and belts every 1440 hours of operation or annually, whichever comes first and replace as necessary</u>	<u>40 CFR 63.6655</u>	<u>P/E</u>	<u>Records</u>

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-B
Applicable Limits and Compliance Monitoring Requirements
S-38 Multi-Fuel Cogeneration Engine #2

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-8-302.1 SIP 9-8-302.1	Y <u>N</u>		140-70 ppmv @ 15% O ₂ , dry	BAAQMD Cond. 20651, part 19	P/A	Source test
NOx	BAAQMD Regulation <u>SIP</u> 9-8-302.1	N <u>Y</u>	1/1/2012	70-140 ppmv @ 15% O ₂ , dry	BAAQMD Cond. 20651, part 19	P/A	Source test
NOx	BAAQMD Condition 20651, part 6	Y		1.25 g/bhp-hr	BAAQMD Cond. 20651, part 19	P/A	Source test
CO	BAAQMD 9-8-302.3 SIP 9-8-302.3	Y		2000 ppmv @ 15% O ₂ , dry	BAAQMD Cond. 20651, part 19	P/A	Source test
CO	BAAQMD Condition 20651, part 8	Y		3.0 g/bhp-hr	BAAQMD Cond. 20651, part 19	P/A	Source test
SO ₂	BAAQMD SIP 9-1-301	Y		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours	None	N	
SO ₂	BAAQMD SIP 9-1-302	Y		300 ppm (dry)	None	N	
<u>Liquid Fuel Sulfur Content</u>	BAAQMD SIP 9-1-304	Y		Sulfur content of liquid fuel <0.5% by weight	BAAQMD Cond. 20651, part 17 None	P/E <u>N</u>	Sulfur certifications or analysis <u>N</u>
	BAAQMD Condition 20651, Part 16	Y		Sulfur content of gaseous fuel, 340 (max) ppm at 0% O₂	BAAQMD Cond. 20651, Part 16	P/W	Sulfur Content Testing

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-B
Applicable Limits and Compliance Monitoring Requirements
S-38 Multi-Fuel Cogeneration Engine #2

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD Condition 20651, part 17	Y		Sulfur content of diesel fuel <0.05% by weight	BAAQMD Cond. 20651, part 17	N	Statement of Fuel Sulfur Content or CARB Diesel Equivalent
POC	BAAQMD Condition 20651, part 7	Y		0.6 g/bhp-hr	BAAQMD Cond. 20651, part 19	P/A	Source test
<u>Total Carbon</u>	BAAQMD 8-2-301 SIP 8-2-301	Y		≤ 15 lb/day or ≤ 300 ppm total carbon concentration	N	N	N
Opacity	BAAQMD 6-1-303 SIP 6-303	Y		> Ringelmann 2.0 for no more than 3 min in any hour	<u>N</u>	N	<u>N</u>
FP	BAAQMD 6-1-310	Y		0.15 gr/dscf	<u>N</u>	N	<u>N</u>
<u>PM</u>	BAAQMD Condition 20651, part 9	Y		0.085 g/hp-hr	BAAQMD Cond. 20651, part 19	P/A	Source test
Fuel Input, Combined to S-37, 38, 39	BAAQMD Condition 20651, part 15	Y		150,000 gallons in any rolling 365 day period	BAAQMD Cond. 20651, part 18	P/D	Records
Thermal Throughput	BAAQMD Condition 20651 part 13	Y		19.8-25EGMM Btu/hr per engine	BAAQMD Cond. 20651, part 18	P/D	Records
Hours of Operation, S-37, 38, 39 Combined	BAAQMD Condition 20651 part 14	Y		25,316 hours in any rolling 365 day period	BAAQMD Cond. 20651, part 18	P/D	Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-B
Applicable Limits and Compliance Monitoring Requirements
S-38 Multi-Fuel Cogeneration Engine #2

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Idle Time</u>	<u>40 CFR 63.6625 (h)</u>	<u>Y</u>	<u>5/3/13</u>	<u><30 minutes for start-up</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Fuel Usage</u>	<u>40 CFR 63.6655(c)</u>	<u>Y</u>	<u>5/3/13</u>	<u>record of daily fuel usage monitors</u>	<u>40 CFR 63.6655(c)</u>	<u>D</u>	<u>Records</u>
<u>Maintenance Events</u>	<u>40 CFR Part 63, Subpart ZZZZ Table 2d 11a</u>	<u>Y</u>	<u>5/3/13</u>	<u>Change Oil and Filter Every 500 hours of operation or annually whichever comes first</u>	<u>40 CFR 63.6655(e)</u>	<u>P/E</u>	<u>Records</u>
<u>Maintenance Events</u>	<u>40 CFR Part 63, Subpart ZZZZ Table 2d 11a</u>	<u>Y</u>	<u>5/3/13</u>	<u>Inspect spark plugs every 1440 hours of operation or annually, whichever comes first</u>	<u>40 CFR 63.6655(e)</u>	<u>P/E</u>	<u>Records</u>
<u>Maintenance Events</u>	<u>40 CFR Part 63, Subpart ZZZZ Table 2d 11a</u>	<u>Y</u>	<u>5/3/13</u>	<u>Inspect all hoses and belts every 1440 hours of operation or annually, whichever comes first and replace as necessary</u>	<u>40 CFR 63.6655(e)</u>	<u>P/E</u>	<u>Records</u>

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-C
Applicable Limits and Compliance Monitoring Requirements
S-43 Wet Weather Primary Sludge Thickeners (2)
S-45 Aerated Grit Tanks (8)
S-47 Scum Thickening Building

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>POC Total Carbon</u>	BAAQMD 8-2-301 SIP 8-2-301	Y		≤ 15 lb/day or ≤ 300 ppm total carbon concentration	None	N	
	<u>BAAQMD condition #2409</u>	<u>N</u>		<u>>5 odor complaints within 1 month</u>	<u>BAAQMD condition # 2409</u>	<u>P/D</u>	<u>Records</u>

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-D
Applicable Limits and Compliance Monitoring Requirements
S-48, GDF #9008

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>VOC Organic Compounds</u>	BAAQMD 8-7-301.10	Y		Equipment certified to recover 98% of gasoline vapors during tank filling	None	N	
	<u>BAAQMD 8-7-301.2</u>	<u>Y</u>		<u>All Phase I Systems Shall Meet the Emission Limitations of the Applicable CARB Certification</u>	<u>CARB EO G-70-161, CARB EO VR-301-D</u>	<u>P/E</u>	<u>CARB Certification Procedures</u>
	<u>BAAQMD 8-7-301.5</u>	<u>Y</u>		<u>Maintain Phase I Equipment in compliance with CARB Executive Order</u>	<u>CARB EO G-70-161, CARB EO VR 301-D</u>	<u>P/E</u>	<u>CARB Certification Procedures</u>
	<u>BAAQMD 8-7-301.6</u>	<u>Y</u>		<u>All Phase I Equipment (except components with allowable leak rates) shall be leak free (<3 drops/minute) and vapor tight</u>	<u>CARB EO G-70-161, paragraph 19 and BAAQMD 8-7-301.13 and 8-7-407 and BAAQMD Condition # 25107, 40 CFR Part 63 subpart CCCCCC 63.11120</u>	<u>P/A</u>	<u>Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System</u>
	<u>BAAQMD 8-7-302.2</u>	<u>Y</u>		<u>All Phase II equipment shall be maintained per CARB certifications and manufacturer's specifications</u>	<u>CARB EO G-70-17AD paragraph 4</u>	<u>P/A</u>	

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-D
Applicable Limits and Compliance Monitoring Requirements
S-48, GDF #9008

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD 8-7-302.5	Y		All Phase II Equipment (except components with allowable leak rates or at the nozzle/fill-pipe interface) Shall Be: leak free (<3 drops/minute) and vapor tight	CARB EO G-70-52AM and G-70-17 AD, paragraph 4 and BAAQMD 8-7-301.13 and 8-7-407 and BAAQMD Condition # 25107	P/A	Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System
	SIP 8-5-403.	Y		Inspection Requirement for Pressure Vacuum Valves- twice per calendar year at 4 to 8 months intervals	SIP-8-5-303.	P/E	Semi-Annual Inspection
Defective Component Repair/ Replacement Time Limit	BAAQMD 8-7-302.4	Y		Shall be repaired or replaced within 7 days	BAAQMD 8-7-503.2	P/E	Records
Liquid Removal Rate	BAAQMD 8-7-302.8	Y		> 5 ml per gallon dispensed, when dispensing rate > 5 gallons/minute	CARB EO G-17AD	P/E	CARB Certification Procedures
Liquid Retain from Nozzles	BAAQMD 8-7-302.12	Y		< 100 ml per 1000 gallons dispensed	CARB EO G-17AD	P/E	CARB Certification Procedures
Nozzle Spitting	BAAQMD 8-7-302.13	Y		< 1.0 ml per nozzle per test	CARB EO G-17AD	P/E	CARB Certification Procedures

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-D
Applicable Limits and Compliance Monitoring Requirements
S-48, GDF #9008

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Back Pressure Test	BAAQMD 8-7-302.14,	Y		Back Pressure Test Required once every 12 months	CARB EO G-17AD, BAAQMD 8-7-601	P/A	CARB Certification Procedures, BAAQMD Manual of Procedures St-27
Pressure Vacuum Valve Requirements	BAAQMD 8-7-316 and CARB EO G-70-161, paragraph 14,	Y		Pressure Setings: >2.5 inches of water column gauge	CARB EO- 161 paragraph 14, CARB EO VR-301-D	P/E	CARB Certification Procedures
	SIP 8-5-303.1 and 303.2	Y		Tank Pressure Vacuum Valve Shall Be: Gas Tight or < 500 ppmv (expressed as methane) above background for PRVs (as defined in SIP 8-5-206)	SIP 8-5-403 and 8-5-503, and CARB EO G-70-161, CARB EO VR-301-D,	P/E	Semi-Annual Inspection with Portable Hydro-carbon Detector
	SIP 8-5-403	Y		Inspection Requirement for Pressure Vacuum Valves- twice per calendar year at 4 to 8 months intervals	SIP-8-5-303	P/E	Semi-Annual Inspection
Dispensing Rate Limit	CARB EO G-70-17AD, paragraph 11	N		< 10 gallons per minute	CARB EO G-70-17AD	P/E	CARB Certification Procedures

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-D
Applicable Limits and Compliance Monitoring Requirements
S-48, GDF #9008

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Disconnect ion Liquid Leaks	CARB EO G-70-160, paragraph 12			< 10 ml per disconnect, averaged over 3 disconnect operations	CARB EO G-70-161, paragraph 19 and BAAQMD 8-7-301.13 and 8-7-407 and BAAQMD Condition # 25107	P/A	Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System
Submerged fill pipes	40 CFR Part 63 subpart CCCCC 63.11117(b) 1	Y		Submerged fill pipes installed on or after November 9, 2006 must be no more than 12 inches from the bottom of the tank	40 CFR Part 63 subpart CCCCC 63.11117(b)1	None	None
Gasoline Throughput	BAAQMD Condition #21663, 40 CFR Part 63 Subpart CCCCC 63.11117(d) 2	Y		Gasoline throughput shall not exceed 334,000 gallons per year	8-7-503.1	P/A	Records
Phase I Pressure Integrity Test	BAAQMD Condition 465462510 7, 40 CFR part 63 CCCCC 63.11120	Y		Annual pressure decay (ST-38) test	8-7-407	P/A	Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-E
Applicable Limits and Compliance Monitoring Requirements
S-49, Diesel Engine, Portable BUG, Allis Chalmers 3500 MKII, 134 HP
S-52 Diesel Engine BUG, Portable, Generac, 280 hp

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Hours of Operation within 1000-ft of School	BAAQMD Cond 19058, part 7	Y		72 consecutive hours (unless permit is granted for more time)	BAAQMD Cond 19058, parts 8a, 8b	P/M	Records
Diesel Sulfur Content	SIP 9-1-304	N		0.5% by weight		N	
Diesel Sulfur Content	BAAQMD Condition 19058, part 4 CCR Title 17 93116.3(a)	N		CARB Diesel (or equivalent)	BAAQMD Cond 19058, parts 4, 8	P/E	Vendor fuel certification
Diesel PM	CCR Title 17 93116.3 (b)(3)	N	1/1/2020	Tier 4 Standards (or equivalent control)		N	
Opacity	BAAQMD 6-303	Y		>Ringelmann 2.0 for no more than 3 min in any hour		N	
FP	BAAQMD 6-310 SIP 6-310	Y		0.15 gr/dsef		N	

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-~~FE~~
Applicable Limits and Compliance Monitoring Requirements
S-50, Diesel Engine, Detroit Diesel, 1043731616, 238 HP
S-51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp
S-52 Diesel Engine BUG < Generac, 280 hp
S-53 Diesel Engine BUG, S/N 44852080, 277 hp

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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
Diesel Liquid Fuel Sulfur Content	SIPBAAQ MD 9-1-304	NY		<0.5% by weight	CCR Title 13, Section 2281 (a) (2 and 5), CCR Title 17, Sections 93115.5 and 93115.10	NP/E	CARB Diesel Fuel Sulfur Content Limits, Sales Restrictions, Usage Requirements and Records
Diesel Liquid Fuel Sulfur Content	BAAQMD Condition 19040, part 4, CCR Title 17 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 Standby Engines must use CARB Diesel Fuel or other CARB Approved Alternative Fuel, which has Fuel Sulfur Limits of: < 15 ppmw of S CARB Diesel (or equivalent)	BAAQMD Cond. 19040, part 4 CCR CCR Title 17, Sections 93115.5 and 93115.10 (gf) (G)(1)	P/M	Vendor fuel certification, Monthly CARB Diesel Fuel Sulfur Content Limits, Sales Restrictions, Usage Requirements, and Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-~~FE~~
Applicable Limits and Compliance Monitoring Requirements
S-50, Diesel Engine, Detroit Diesel, 1043731616, 238 HP
S-51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp
S-52 Diesel Engine BUG < Generac, 280 hp
S-53 Diesel Engine BUG, S/N 44852080, 277 hp

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-303 SIP 6-303	Y		>Ringelmann 2.0 for no more than 3 min in any hour	<u>None</u>	N	<u>NA</u>
FP	BAAQMD 6-1-310 SIP 6-310	Y		≤0.15 gr/dscf	<u>None</u>	N	<u>NA</u>
<u>Hours of Operation</u>	<u>BAAQMD Condition 22820, part 1 CCR Title 17 93115.6(b)(3)(A)(1)(a)</u>	<u>N</u>		<u>reliability-related activities not to exceed 20 hours in any consecutive 12-month period</u>	<u>BAAQMD Cond.22820, parts 3-4 CCR Title 17 93115.10(d)(1) and (f)(1)</u>	<u>C & P/M</u>	<u>Hour meter, Monthly records</u>
Hours of Operation	BAAQMD Condition 190402283 <u>0</u> , part 1 CCR Title 17 93115.6(b) (3)(A)(1)(a) <u>b)</u>	<u>N</u>		reliability-related activities not to exceed 20 <u>30</u> hours in any consecutive 12-month period	BAAQMD Cond. 1904022830 , parts 3,63 -4 CCR Title 17 93115.10(ed)(1))and (f)(1)	<u>C & P/M</u>	Hour meter, Monthly records
<u>Hours of Operation</u>	<u>BAAQMD Condition 22850, part 1 CCR Title 17 93115.6(b)(3)(A)(2)(b)</u>	<u>N</u>		<u>reliability-related activities not to exceed 50 hours in any consecutive 12-month period</u>	<u>BAAQMD Cond.22850, parts 3-4 CCR Title 17 93115.10(d)(1) and (f)(1)</u>	<u>C & P/M</u>	<u>Hour meter, Monthly records</u>

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-~~FE~~
Applicable Limits and Compliance Monitoring Requirements
S-50, Diesel Engine, Detroit Diesel, 1043731616, 238 HP
S-51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp
S-52 Diesel Engine BUG < Generac, 280 hp
S-53 Diesel Engine BUG, S/N 44852080, 277 hp

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Hours of Operation</u>	<u>BAAQMD 9-8-330.2</u>	<u>N</u>		<u>Operating Hours for Reliability-Related Activities: < 100 hours in a calendar year</u>	<u>BAAQMD 9-8-530 and BAAQMD Condition # 22830 and #22850, Parts 3-4</u>	<u>C & P/M</u>	<u>Hour Meter and Records</u>
<u>Hours of Operation</u>	<u>BAAQMD 9-8-330.3</u>	<u>N</u>		<u>Operating Hours for Reliability-Related Activities: <50 hours in a calendar year</u>	<u>BAAQMD 9-8-530 and BAAQMD Condition # 22830, and #22850 Parts 3-4</u>	<u>C & P/M</u>	<u>Hour Meter and Records</u>
<u>Hours of Operation</u>	<u>40 CFR 63.6640 (f)(1)(ii)</u>	<u>Y</u>	<u>5/3/13</u>	<u>Operating Hours for Maintenance Checks, Readiness Testing, and Other Non-Emergency Operation: < 100 hours in a calendar year</u>	<u>40 CFR 63.6625(f) and 63.6655(f)(2)</u>	<u>C & P/M</u>	<u>Hour Meter and Records</u>
<u>Hours of Operation</u>	<u>40 CFR 63.6640(f)(1)(iii)</u>	<u>Y</u>	<u>5/3/13</u>	<u>Operating Hours for Non-Emergency Operation: < 50 hours in a calendar year</u>	<u>40 CFR 63.6625(f) and 63.6655(f)(2)</u>	<u>C & P/M</u>	<u>Hour Meter and Records</u>
<u>Idle Time</u>	<u>40 CFR 63.6625(h)</u>	<u>Y</u>	<u>5/3/13</u>	<u><30 minutes for start-up</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-~~FE~~
Applicable Limits and Compliance Monitoring Requirements
S-50, Diesel Engine, Detroit Diesel, 1043731616, 238 HP
S-51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp
S-52 Diesel Engine BUG < Generac, 280 hp
S-53 Diesel Engine BUG, S/N 44852080, 277 hp

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Main-tenance Events	40 CFR, Part 63, Subpart ZZZZ, Table 2d 4.a.	Y	5/3/13	Change Oil and Filter: Every 500 hours of operation or annually, whichever comes first	40 CFR 63.6655(e)	P/E	Records
Main-tenance Events	40 CFR, Part 63, Subpart ZZZZ, Table 2d 4.b.	Y	5/3/13	Inspect Air Cleaner: Every 1,000 hours of operation or annually, whichever comes first	40 CFR 63.6655(e)	P/E	Records
Main-tenance Events	40 CFR, Part 63, Subpart ZZZZ, Table 2d 4.c.	Y	5/3/13	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)	P/E	Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-~~GF~~
Applicable Limits and Compliance Monitoring Requirements
S-54 Diesel Engine BUG, Caterpillar 3412B, 1114 hp

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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
Diesel Liquid Fuel Sulfur Content	SIP BAAQMD 9-1-304	Y		$\leq 0.5\%$ by weight	CCR Title 13, Section 2281 (a) (2 and 5), CCR Title 17, Sections 93115.5 and 93115.10	NP/E	CARB Diesel Fuel Sulfur content Limits, Sales Restrictions, Usage
Diesel Liquid Fuel Sulfur Content	BAAQMD Condition 24733, part 4, CCR Title 17 93115.5(b) and CCR Title 13, Section 2281 (a) (2 and 5)	N		CARB Diesel (or equivalent) Standby Engines must use CARB Diesel Fuel or other CARB Approved Alternative Standby Engines must use CARB Diesel Fuel or other CARB Approved Alternative Fuel, which has Fuel Sulfur Limits of: ≤ 15 ppmw of S	BAAQMD Cond. 24733, part 4 CCR Title 17 Sections 93115.5 and 93115.10 (g) (1)	P/ME	CARB Diesel Fuel Sulfur Content Limits, Sales Restrictions, Usage Requirements, and Vendor fuel certification, Monthly Records
Opacity	BAAQMD 6-1-303 SIP 6-303	Y		$>$ Ringelmann 2.0 for no more than 3 min in any hour	None	N	NA
FP	BAAQMD 6-1-310 SIP 6-310	Y		≤ 0.15 gr/dscf	None	N	NA

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-~~GF~~
Applicable Limits and Compliance Monitoring Requirements
S-54 Diesel Engine BUG, Caterpillar 3412B, 1114 hp

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Hours of Operation	BAAQMD Condition 247332285 0, part 1 CCR Title 17 93115.6(b) (3)(A) (2)(b)	<u>N</u>		reliability-related activities not to exceed 50 hours in any consecutive 12-month period	BAAQMD Cond. 247332285 , parts 5,63-4 CCR Title 17 93115.10(ed)(1) <u>and (f) (1)</u>	P/M	Hour meter, Monthly records
<u>Hours of Operation</u>	<u>BAAQMD 9-8-330.2</u>	<u>N</u>		<u>Operating Hours for Reliability-Related Activities:</u> <u>< 100 hours in a calendar year</u>	<u>BAAQMD 9-8-530</u> <u>and</u> <u>BAAQMD Condition # 22850, Parts 3-4</u>	<u>C & P/M</u>	<u>Hour Meter and Records</u>
<u>Hours of Operation</u>	<u>BAAQMD 9-8-330.3</u>	<u>N</u>		<u>Operating Hours for Reliability-Related Activities:</u> <u><50 hours in a calendar year</u>	<u>BAAQMD 9-8-530</u> <u>and</u> <u>BAAQMD Condition #22850</u> <u>Parts 3-4</u>	<u>C & P/M</u>	<u>Hour Meter and Records</u>
<u>Hours of Operation</u>	<u>40 CFR 63.6640 (f)(1)(ii)</u>	<u>Y</u>	<u>5/3/13</u>	<u>Operating Hours for Maintenance Checks, Readiness Testing, and Other Non-Emergency Operation:</u> <u>< 100 hours in a calendar year</u>	<u>40 CFR 63.6625(f)</u> <u>and</u> <u>63.6655(f)(2)</u>	<u>C & P/M</u>	<u>Hour Meter and Records</u>
<u>Hours of Operation</u>	<u>40 CFR 63.6640(f)(iii)</u>	<u>Y</u>	<u>5/3/13</u>	<u>Operating Hours for Non-Emergency Operation:</u> <u>< 50 hours in a calendar year</u>	<u>40 CFR 63.6625(f)</u> <u>and</u> <u>63.6655(f)(2)</u>	<u>C & P/M</u>	<u>Hour Meter and Records</u>

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-~~GF~~
Applicable Limits and Compliance Monitoring Requirements
S-54 Diesel Engine BUG, Caterpillar 3412B, 1114 hp

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Idle Time</u>	<u>40 CFR 63.6625(h)</u>	<u>Y</u>	<u>5/3/13</u>	<u>≤30 minutes for start-up</u>	<u>None</u>	<u>N</u>	<u>NA</u>
<u>Main-tenance Events</u>	<u>40 CFR, Part 63, Subpart ZZZZ, Table 2d 4.a.</u>	<u>Y</u>	<u>5/3/13</u>	<u>Change Oil and Filter: Every 500 hours of operation or annually, whichever comes first</u>	<u>40 CFR 63.6655(e)</u>	<u>P/E</u>	<u>Records</u>
<u>Main-tenance Events</u>	<u>40 CFR, Part 63, Subpart ZZZZ, Table 2d 4.b.</u>	<u>Y</u>	<u>5/3/13</u>	<u>Inspect Air Cleaner: Every 1,000 hours of operation or annually, whichever comes first</u>	<u>40 CFR 63.6655(e)</u>	<u>P/E</u>	<u>Records</u>
<u>Main-tenance Events</u>	<u>40 CFR, Part 63, Subpart ZZZZ, Table 2d 4.c</u>	<u>Y</u>	<u>5/3/13</u>	<u>Inspect Hoses and Belts and (if necessary) Replace Hoses and Belts: Every 500 hours of operation or annually, whichever comes first</u>	<u>40 CFR 63.6655(e)</u>	<u>P/E</u>	<u>Records</u>

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-HG
Applicable Limits and Compliance Monitoring Requirements
S-55 Hot Water Boiler

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-7-301.1 SIP 9-7-301.1	Y		30 ppm @3% O ₂	BAAQMD 9-7-403 SIP 9-7-403	N	Initial source test
<u>NOx</u>	<u>BAAQMD 9-7-307.7</u>	<u>N</u>		<u>30 ppm @ 3% O₂</u>	<u>None</u>	<u>N</u>	<u>N</u>
<u>NOx</u>	BAAQMD Condition 20651, part 5	Y		30 ppm @3% O ₂	BAAQMD Cond. 20651, part 19	P/A	Source test
<u>NOx</u>	BAAQMD 9-7-307.7	N	1/1/2012	30 ppm @3% O ₂	N	N	N
<u>Insulation Requirements</u>	<u>BAAQMD 9-7-311</u>	<u>N</u>		<u>all pipes and ducts heated by device does not exceed 120°F</u>	<u>N</u>	<u>N</u>	<u>N</u>
<u>Stack Gas Temperature</u>	<u>BAAQMD 9-7-312</u>	<u>N</u>	<u>1/1/2013</u>	<u>100°F over saturated steam temperature</u>	<u>N</u>	<u>N</u>	<u>N</u>
CO	BAAQMD 9-7-301. 42 SIP 9-7-301.2	Y		400 ppm @3% O ₂	BAAQMD 9-7-403 SIP 9-7-403	N	Initial source test
<u>CO</u>	BAAQMD 9-7-307.7	N	1/1/2012	400 ppm @3% O ₂	N	N	N
<u>CO</u>	BAAQMD Condition 20651, part 5	Y		50 ppm @3% O ₂	BAAQMD Cond. 20651, part 19	P/A	Source test
SO ₂	SIP <u>BAAQMD 9-1-301</u>	Y		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours	None	N	N

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-HG
Applicable Limits and Compliance Monitoring Requirements
S-55 Hot Water Boiler

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO₂	SIPBAAQMD 9-1-302	Y		300 ppm (dry)	BAAQMD Cond. 18860, part 4	P/W	Fuel Sulfur Content
Opacity	BAAQMD 6-1-301 SIP 6-301	Y		> Ringelmann 1.0 for no more than 3 min in any hour	N	N	N
PM₁₀	BAAQMD 6-1-310 SIP 6-310	Y		0.15 gr/dscf at 6% Oxygen	N	N	N
Organic Compounds	BAAQMD 8-2-301 SIP 8-2-301	Y		≤ 15 lb/day or ≤ 300 ppm total carbon concentration	N	N	N
Heat Input Rate	BAAQMD condition # 20651 part 3b	N		20.41 MMBTU/hr	BAAQMD condition #20651 part 18	P/D	Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII- ~~II~~
 Applicable Limits and Compliance Monitoring Requirements
 S-56, S-57: Digester Gas Turbines #1 & #2**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-9-301.1.1 SIP 9-9-301.1	Y		42 ppmv @15% O ₂	BAAQMD Regulation 9-9-504	P/A	Source test
<u>NOx</u>	BAAQMD 9-9-301.2	N		2.53 lbs/MW-hr or 50 ppmv @15% O ₂	BAAQMD Regulation 9-9-504	P/A	Source test
<u>NOx</u>	BAAQMD Condition 24050, part 3	Y		23 ppmv @15% O ₂ , 34,400 lb/yr (excluding startup, shutdown, and commissioning)	BAAQMD Cond. 24050, part 7	P/A	Source test
CO	BAAQMD Condition 24050, part 4	Y		100 ppmv @15% O ₂ , 92,200 lb/yr (excluding startup, shutdown, and commissioning)	BAAQMD Cond. 24050, part 7	P/A	Source test
SO ₂	<u>SIPBAAQ</u> <u>MD</u> 9-1-301	Y		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours	None	N	N
<u>SO₂</u>	<u>SIPBAAQ</u> <u>MD</u> 9-1-302	Y		300 ppm (dry)	BAAQMD Cond. 18860, part 4	P/W	Fuel Sulfur Content
<u>Liquid Fuel Sulfur Content</u>	<u>BAAQMD</u> <u>9-1-304</u>	<u>Y</u>		<u><0.5% S by weight</u>	<u>CCR Title 13,</u> <u>Section 2281</u> <u>(a) (2 and 5)</u>	<u>P/E</u>	<u>CARB Diesel</u> <u>Fuel Sulfur</u> <u>Content</u> <u>Limits, Sales</u> <u>Restrictions,</u> <u>Usage</u>
<u>SO₂</u>	BAAQMD Condition 24050, part 5	Y		150 ppmv @15% O ₂	BAAQMD Cond. 24050, part 7	P/A	Source test

VII. Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII-~~II~~
 Applicable Limits and Compliance Monitoring Requirements
 S-56, ~~S-57~~: Digester Gas Turbines #1 & #2**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>SO₂</u>	NSPS Subpart GG, 60.333(a)	Y		≤ 0.015% @15% O ₂	NSPS Subpart GG, 60.334(h) and BAAQMD Cond. 18860, part 4	P/W	Fuel Sulfur Content
Opacity	BAAQMD 6-1-301 SIP 6-301	Y		> Ringelmann 1.0 for no more than 3 min in any hour	N	N	N
<u>PM₁₀</u>	BAAQMD 6-1-310 SIP 6-310	Y		0.15 gr/dscf at 6% Oxygen	N	N	N
<u>POC Total Carbon</u>	BAAQMD 8-2-301 SIP 8-2-301	Y		≤ 15 lb/day or ≤ 300 ppm total carbon concentration	N	N	N
Fuel Usage	BAAQMD Condition 24050, part 2	Y		Combined-fuel Fuel usage (S-55, S-56) ≤389,820 MMBTU/yr	BAAQMD Cond. 24050, part 7, part 9	P/A,W	Digester gas flow rate, BTU content

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-~~J~~I
Applicable Limits and Compliance Monitoring Requirements
S-100, Municipal Wastewater Treatment Plant

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Wastewater Throughput	Condition 21759, part 1	Y		120 million gal/day dry 325 million gal/day wet	Condition 21759, part 3	P/D	Records
<u>POC Total Carbon</u>	BAAQMD 8-2-301 SIP 8-2-301	Y		≤ 15 lb/day or ≤ 300 ppm total carbon concentration	N	N	N

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-~~KJ~~
Applicable Limits and Compliance Monitoring Requirements
S-110 Headworks; IPS; Barscreens
S-120 Primary Treatment; 16 Sedimentation Tanks
S-130 Secondary Treatment; 8 HPO Activated Sludge Units C/V
S-140 Secondary Clarifiers; 12 Clarifiers
S-160 Disinfection, Chlorination Contact Tanks, Non-ducted
S-170 Sludge Handling, 3 WAS GBTs, 6 Dewatering Centrifuges

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>POC</u> <u>Total</u> <u>Carbon</u>	BAAQMD 8-2-301 SIP 8-2-301	Y		≤ 15 lb/day or ≤ 300 ppm total carbon concentration	N	N	N

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-~~L~~K
Applicable Limits and Compliance Monitoring Requirements
S-180 Anaerobic Digesters; 10 Floating Cover , 1 Dystor

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>POC</u> <u>Total Carbon</u>	BAAQMD 8-2-301 SIP 8-2-301	Y		≤ 15 lb/day or ≤ 300 ppm total carbon concentration	None	N	
H2S	BAAQMD 9-2-301	Y		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours	None	<u>N</u>	
Total Sulfur	BAAQMD Condition 18860, part 3	N		340 ppmv	BAAQMD Condition 18860, part 4	P/W	Fuel Sulfur Content
None	None	N		None	BAAQMD Condition 18860, part 2	P/M	Digester Tank Visual Inspection

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally ~~referenced~~ found in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits ~~referenced~~ included 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 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 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 Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD 8-2-301 and SIP 8-2-301	Total Organic Compound (TOC) Emission Limitation for Miscellaneous Operation	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling or EPA Reference Method 25 Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, or EPA Reference Method 2 or 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer
BAAQMD 8-7-301.2	Gasoline Vapor Recovery	BAAQMD Manual of Procedures, Volume IV, ST-36 or as prescribed by CARB Test Procedure TP-201.1
BAAQMD 8-7-301.6	Vapor Tightness Requirement	Manual of Procedures, Volume IV, ST-38, Gasoline Dispensing Facility Static Pressure Integrity Test Aboveground Vaulted Tanks or ARB Test Method TP 201.3B Determination of Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities with Above-Ground Storage Tanks
BAAQMD 8-7-302.8	Gasoline Vapor Recovery- Phase II - Liquid Removal Requirements	Manual of Procedures, Volume IV, ST-37, GDF Liquid Removal Devices or ARB Test Method TP-201.6 Determination of Liquid Removal of Vapor Recovery Systems of Dispensing Facilities
BAAQMD 8-7-302.12	Liquid Retain from Nozzles	Manual of Procedures, Volume IV, ST-41, Gasoline Liquid Retention in Nozzles and Hoses (this method has not been approved yet)

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 8-7-302.13	Nozzle Spitting	Manual of Procedures, Volume IV, ST-41, Gasoline Liquid Retention in Nozzles and Hoses (this method has not been approved yet)
BAAQMD 9-1-302	General Emission Limitation (SO ₂)	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides, Integrated Sample
BAAQMD 9-1-304	Liquid Fuel Sulfur Content	Manual of Procedures, Volume III, Method 10A, Determination of Sulfur in Fuel Oil Petroleum and Petroleum Products or ASTM D2622-94 or CARB Approved Equivalent
BAAQMD 9-7-304.1	Limit on Stack-Gas Oxygen Concentration	Manual of Procedures, Volume IV, ST-14, Continuous Sampling
BAAQMD 9-8-302.1	Waste Derived Fuel Gas, NOx Limits for Lean Burn Engines	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-8-302.3	Waste Derived Fuel Gas, CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-9-301	NOx Emissions Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling For compliance with output based emissions standards, see procedure in BAAQMD Regulation 9-9-605.
BAAQMD 9-9-604	Determination of HHV and LHV (gaseous fuels)	ASTM 1826-88 or ASTM 1945-81 in conjunction with ASTM D3588-89
NSPS 40 CFR 60.333(a,b)	Fuel Sulfur Limit (gaseous fuel) SO ₂ Limits	ASTM D 1072-80, Standard Method for Total Sulfur in Fuel Gases ASTM D 3031-81, Standard Test Method for Total Sulfur in Natural Gas by Hydrogenation
BAAQMD Cond 18860, Part 3	Digester Gas Total Sulfur	Manual of Procedures, Volume III, Method 44 or ASTM Method D5504
BAAQMD Cond 20651 Part 5	NOx and CO Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond 20651 Part 6	NOx Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Cond 20651 Part 8	CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond 20651 Part 10	NOx Limits	BAAQMD MOP Volume IV, ST-13A Oxides of Nitrogen, Continuous Sampling, and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond 20651 Part 11	CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond 24050 Part 3	NOx Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond 24050 Part 4	CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond 24050 Part 5	SO2 Limits	ASTM D 1072-80, Standard Method for Total Sulfur in Fuel Gases ASTM D 3031-81, Standard Test Method for Total Sulfur in Natural Gas by Hydrogenation
CARB EO G-70-161	Leak Free Emergency Vent	Manual of Procedures, Volume IV, ST-38, Gasoline Dispensing Facility Static Pressure Integrity Test Aboveground Vaulted Tanks or ARB Test Method TP 201.3B Determination of Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities with Above-Ground Storage Tanks or California Air Resources Board Methos 2-6 "Test Procedures for Gasoline Vapor Leak Detection Using Combustible Gas Detector" (May 1, 1982) incorporated by reference in Title 17 CCR Section 94007
CARB EO G-70-161	Disconnection Liquid Leaks for Phase I Systems	BAAQMD Enforcement Division, Policies and Procedures, Regulation 8, Rule 33, Bulk Gasoline Distribution Facilities and Gasoline Delivery Vehicles Guidelines, Section 5.B.1.
CARB EO VR-301-D	Standing Loss Control Vapor Recovery System for AGT	California Air Resources Board Vapor Recovery Test Procedure TP-206.1- Determination of Emission Factor for Standing Loss Vapor Recovery Systems Using Temperature Attenuation Factor at Gasoline dispensing Facilities with Aboveground Storage Tanks (May 2, 2008)

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR PART 63 Subpart A 60.8 Performance Test	NESHAP for Gasoline Dispensing Facilities (1/24/11)	2) California Air Resources Board Vapor Recovery Test Procedure TP-201.1E—"Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves," adopted October 8, 2003, IBR approved for §63.11120(a)(1)(i) . (3) California Air Resources Board Vapor Recovery Test Procedure TP-201.3—"Determination of 2-Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities," adopted April 12, 1996 and amended March 17, 1999, IBR approved for §63.11120(a)(2)(i) . Bay Area Air Quality Management District Source Test Procedure ST-30—Static Pressure Integrity Test—Underground Storage Tanks, adopted November 30, 1983, and amended December 21, 1994 (incorporated by reference, <i>see</i> §63.14).
	NESHAP for Stationary Reciprocating Internal Combustion Engines	ASTM D6522-00 (Reapproved 2005), Standard Test Method for Determination of Nitrogen Oxides, Carbon Monoxide, and Oxygen Concentrations in Emissions from Natural Gas Fired Reciprocating Engines, Combustion Turbines, Boilers, and Process Heaters Using Portable Analyzers, approved October 1, 2005, IBR approved for table 4 to subpart ZZZZ of this part, table 5 to subpart DDDDD of this part, and table 4 to subpart JJJJJ of this part.
40 CFR Part 60 Subpart A 60.13 Monitoring Requirements	NSPS Subpart GG- Stationary Gas Turbines (2/24/2006)	
60.333(a)	SO2 Volumetric Emission Limit	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
NSPS 40 CFR 60.8	40 CFR Part 60 Appendix A	EPA Method 7,-Determination of Nitrogen Oxide Emissions from Stationary Sources EPA Method 20-Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines

IX. PERMIT SHIELD

Not applicable

X. REVISION HISTORY

Initial Issuance:	July 1, 1997
Minor Modification (AN 1209, 1068, 27693)	November 9, 2000
Minor Modification (AN 10353/10237):	July 14, 2004
• <u>Removal of underground tank,</u>	
• <u>Installation of aboveground tank</u>	
Renewal (AN 3926):	July 26, 2005
Minor Revision (AN 18480):	December 28, 2010

Permit Renewal (Application 21441) [Insert Issuance Date]

- Add and revise text in Section I, II, III, IV, VII, and VIII to conform to current standard text.
- Remove source that have been shut down from Table II-A (S-57), and sources that are exempt from permitting (S-49 portable diesel engine), delete the associated tables (Tables IV-E, VII-E), and delete the associated conditions (Condition #19058). Added Table IIC- Exempt Equipment and placed sources S-49 in this category.
- In Table II-A, changed description of S-52 from portable to stationary as the facility hardwired the engine.
- Table II-A made correction to capacity of engines from 19.8 MM Btu/hr to 25 MM Btu/hr for sources S-37, S-38 and S-39.
- Table II-A added a description of tank for S-48.
- Renumber Table IV- E-N and Tables VII- E-M as Tables IV- E-M and Tables VII- E-K.
- Correct and update regulatory references and amendment dates throughout the permit.
- Add several missing BAAQMD and federal regulations to Table III, and add several new California regulations to Table III.
- Incorporate changes to SIP Regulation 6 and BAAQMD Regulation 6, Rule 1 in Table VII- A and B.
- Throughout the permit, replace condition bases citing the Toxic Risk Management Policy (TRMP) with the appropriate regulatory citation from BAAQMD Regulation 2, Rule 5, which was adopted in 2005 and amended in 2010.
- For sources S-50, S-51, S-52, S-53 and S-54 Diesel Engine for Emergency Back-Up Generator, add the exemption in BAAQMD Regulation 8-1-110.2 to Tables IV-E and F to clarify that this diesel engine is exempt from other Regulation 8 requirements. In Tables IV-E and F and VII-E and F, add the new and future

IX. Permit Shield (continued)

- requirements for emergency engines identified in the 2007 amendments to BAAQMD Regulation 9, Rule 8. Also in Tables IV-E and F, VII-E and F, and VIII, add the applicable NESHAP requirements for this stationary RICE engine (40 CFR, Part 63, Subpart ZZZZ) and the applicable ATCM requirements for this stationary emergency engine (CCC, Title 17, Section 931115). Replace Condition #19040 with Condition #22830 and replace condition #22477 with condition #22850, added condition # 22820 for S-52.
- For the S-48 Non-Retail Gasoline Dispensing Facility # 9008, incorporate the 2006 amendments to Regulation 8, Rule 5 into Tables IV-D, VII-D, and VIII. These amendments exempt the above-ground gasoline storage tank associated with S-48 from BAAQMD Regulation 8, Rule 5; however, this tank is still subject to SIP Regulation 8, Rule 5. Under Condition #16516 this condition # was deleted and replaced with condition #25107 for S-48.
 - In Table IV-D and Table IV VII-D, add the applicable NESHAP requirements for this gasoline dispensing facility (40 CFR, Part 63, Subpart CCCCCC)
 - In Table IV-D and Table VII-D added CARB Executive Order G-70-17AD, CARB Executive Order G-70-52AM, CARB Executive Order G-70-161 and CARB Executive Order VR-301-D.
 - In Part VI, deleted condition #19058 for sources S-49 and S-52, for S-48 deleted condition #16516 and replaced it with condition #25107 (both these conditions for S-48 were the same)
 - In Table IV-H and Table VII-H- added 40 CR Part 60 Subpart GG-standards of performance for stationary gas turbines.
 - In Part VI, for sources S-50 and S-53 replaced condition #19040 with condition #22830.
 - In Part VI, for source S-52 added condition # 22820.
 - In Part VI, for source S-51 replaced condition #19040 with Condition #22850. Deleted condition 19040 for sources S-50, S-51 and S-53.
 - In Part VI, removed S-57 from condition #24050 and made minor changes to reflect only one turbine engine for this condition.
 - In Part VI, removed S-57 from condition # 18860.
 - In Part VI, deleted source S-57 along with its condition, as facility never installed source.
 - In Part VI, deleted condition #24733 for S-54 and replaced it with

IX. Permit Shield (continued)

- condition #22850 as the District desires to retain consistency in condition for diesel engines.
- In Part VI of condition #20651, part 10, changed 140 to 70 to reflect current condition requirements of Regulation 9-8-302.
- In Part VI of condition #20651, part 13, made correction for thermal throughput from 19.8 to 25 as per A/N 17749 stated that this was a typo.
- In Tables VII-A and B made correction of thermal throughput from 19.8 to 25MM BTU/hr.
- Add symbols to Tables VII-A through VII-G to clarify limits.
- Add, corrected items to Tables VII-A through J.
- In Tables VII-E added hours of operation to source S-52 and added Source S-52 to Table VII-E.
- In Tables IV-A, IV-B, IV-G and IV-H, condition # 18860 was added to sources S-37, S-38, S-39, S-55 and S-56.
- For Table VIII, add missing test methods for existing requirements, add test methods for all new limits, and remove obsolete or unnecessary test methods.
- Add this permit renewal to the Section X Revision History.
- Add terms to the Section XI Glossary.

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

API

XI. Glossary

American Petroleum Institute

ARB

Air Resources Board

ASTM

American Society for Testing and Materials

ATCM

Airborne Toxic Control Measure

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

Basis

The underlying authority which 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

CAM

Compliance Assurance Monitoring per 40 CFR Part 64

CAPCOA

California Air Pollution Control Officers Association

CARB

California Air Resources Board (same as ARB)

CCR

The California Code of Regulations

CEC

California Energy Commission

CEQA

California Environmental Quality Act

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.

XI. Glossary

CH₄ or CH₄

Methane

CI

Compression Ignition

CIWMB

California Integrated Waste Management Board

CO

Carbon Monoxide

CO₂ or CO₂

Carbon DioxideCO₂e

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

EO

Executive Order

XI. Glossary

EPA

The federal Environmental Protection Agency.

Excluded

Not subject to any District Regulations.

FE, Federally Enforceable,

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60 (NSPS), Part 61 (NESHAPs), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), and also including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

FP

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

FR

Federal Register

GDF

Gasoline Dispensing Facility

GHG

Greenhouse Gas

GLC

Ground Level Concentration

GLM

Ground Level Monitor

Grains

1/7000 of a pound

GRS

Gas Recovery Systems, Inc.

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

XI. Glossary

Hydrogen Sulfide

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 60 °F 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

XI. Glossary

Major Facility

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

MAX or Max.
Maximum

MFR

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

MIN or Min.
Minimum

MOP

The District's Manual of Procedures.

MSDS
Material Safety Data Sheet

MSW
Municipal solid waste

MW
Molecular weight

N2 or N₂
Nitrogen

NA
Not Applicable

NAAQS

National Ambient Air Quality Standards

NESHAPs

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

NMHC

Non-methane Hydrocarbons

XI. Glossary

NMOC

Non-methane Organic Compounds (Same as NMHC)

NO₂

Nitrogen Dioxide

NO_x

Oxides of nitrogen.

NSPS

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

NSR

New Source Review. A federal program for preconstruction review and permitting of new and modified sources of air pollutants for which criteria have been established in accordance with Section 109 of the Federal Clean Air Act. Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

O₂ or O₂

Oxygen

Offset Requirement

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

Phase II Acid Rain Facility

A facility that generates electricity for sale through fossil-fuel combustion and is not exempted by 40 CFR 72 from Titles IV and V of the Clean Air Act.

PERP

Portable Equipment Registration Program

POC

Precursor Organic Compounds

PM

Particulate Matter

XI. Glossary

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 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.

PTE

Potential to Emit as defined by BAAQMD Regulation 2-6-218

PV or P/V Valve or PRV

Pressure / Vacuum Relief Valve

RICE

Reciprocating Internal Combustion Engine

RMP

Risk Management Plan, as defined in 40 CFR Part 68.

RWQCB

Regional Water Quality Control Board

S

Sulfur

SCR

A "selective catalytic reduction" unit is an abatement device that reduces NOx 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 NOx compounds to nitrogen gas.

XI. Glossary

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 Ambient Air Quality Standards. Mandated by Title I of the Act.

SO₂ or SO₂
Sulfur dioxide

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

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

XI. Glossary

TRMP

Toxic Risk Management Plan

TSP

Total Suspended Particulate

TSP

Total Suspended Particulate

TVP

True Vapor Pressure

VOC

Volatile Organic Compounds

VMT

Vehicle Miles Traveled

Symbols:

<u><</u>	<u>=</u>	<u>less than</u>
<u>></u>	<u>=</u>	<u>greater than</u>
<u><</u>	<u>=</u>	<u>less than or equal to</u>
<u>></u>	<u>=</u>	<u>greater than or equal to</u>

XI. Glossary

Units of Measure:

<u>atm</u>	=	<u>atmospheres</u>
<u>bbl</u>	=	<u>barrel of liquid (42 gallons)</u>
bhp	=	brake-horsepower
Btu	=	British Thermal Unit
<u>°C</u>	=	<u>degrees Centigrade</u>
<u>cfm</u>	=	<u>cubic feet per minute</u>
<u>dscf</u>	=	<u>dry standard cubic feet</u>
<u>°F</u>	=	<u>degrees Fahrenheit</u>
<u>ft³</u>	=	<u>cubic feet</u>
g	=	grams
gal	=	gallon
<u>gpm</u>	=	<u>gallons per minute</u>
<u>gr</u>	=	<u>grains</u>
hp	=	horsepower
hr	=	hour
<u>in</u>	=	<u>inches</u>
<u>kW</u>	=	<u>kilowatt</u>
lb	=	pound
in	=	inches
<u>lbmole</u>	=	<u>pound-mole</u>
max	=	maximum
m ²	=	square meter
<u>m³</u>	=	<u>cubic meters</u>
min	=	minute
MM	=	million
<u>MM BTU</u>	=	<u>million BTU</u>
<u>MMcf</u>	=	<u>million cubic feet</u>
<u>Mg</u>	=	<u>mega grams</u>
<u>M scf</u>	=	<u>one thousand standard cubic feet</u>
<u>MW</u>	=	<u>megawatts</u>
<u>ppb</u>	=	<u>parts per billion</u>
<u>ppbv</u>	=	<u>parts per billion, by volume</u>
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
<u>scfm</u>	=	<u>standard dry cubic feet</u>
scfm	=	standard cubic feet per minute
<u>yd</u>	=	<u>yard</u>
<u>yd³</u>	=	<u>cubic yards</u>
yr	=	year