# Bay Area Air Quality Management District

939 Ellis Street
San Francisco, CA 94109375 Beale Street, Suite 600
San Francisco, CA 94105
(415) 771-6000

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# 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** | **Facility Contact** |
|---|---|
| David R. WilliamsEileen M. White, P.E. | Kurt HaunschildMaura Bonnarens |
| (510) 287-11491663 | (510) 287-10231407 |

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

BAAQMD Engineering Division Contact: Irma SalinasSimrun Dhoot

**Primary SIC:** 4952

**Product:** Treated Municipal Wastewater

**ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

Signed by

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

Date

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# I. STANDARD CONDITIONS

## A. Administrative Requirements

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

BAAQMD Regulation 1 - General Provisions and Definitions
(as amended by the District Board on 5/4/11);
SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 6/28/99);
BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on ~~4/18/12~~ 12/6/17);
SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through ~~1/26/99~~8/1/16);
BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on ~~6/15/05~~ 12/6/17);
SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through ~~1/26/99~~8/1/16);
BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on ~~12/21/04~~ 12/6/17),
SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through ~~1/26/99~~ 12/4/17),
BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants
(as amended by the District Board on ~~1/6/10~~12/7/16)
BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on ~~4/16/03~~ 12/6/17).
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 _____and expires on _____. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than _____ and no earlier than _____. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after _____.** If the permit renewal has not been issued by ___ , but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407, & 409.6; MOP Volume II, Part 3, §4.2)

# I. Standard Conditions

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 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)

# I. Standard Conditions

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; MOP Volume II, Part 3, §4.7)

### F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. Monitoring reports shall be prepared for the following periods: July 1st through December 31st and January 1st through June 30th of each year, and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any

# I. Standard Conditions

corrective or preventative actions. The reports shall be sent by e-mail to compliance@baaqmd.gov or by postal mail to the following address:

Director of Compliance and Enforcement
Bay Area Air Quality Management District
~~939 Ellis Street~~375 Beale Street, Suite 600
San Francisco, CA 9410~~5~~9
Attn: Title V Reports

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

## G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be July 1st through June 30th. The certification shall be submitted by July 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~~ shall be sent by e-mail to r9.aeo@epa.gov or postal mail 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~~

Director
Enforcement Division, TRI & Air Section (ENF-2-1)
USEPA Region 9
75 Hawthorne Street
San Francisco, California 94105

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

## H. Emergency Provisions

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

# I. Standard Conditions

1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)

2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. (MOP Volume II, Part 3, §4.8)
3. The granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, §4.8)

## I. Severability

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

## J. Miscellaneous Conditions

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

# II. EQUIPMENT

## A. Permitted Source List

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

**Table II – A**
**Permitted Sources**

| S-# | Description | Make or Type | Model | Capacity |
|---|---|---|---|---|
| S37 | Multi-Fuel Cogeneration Engine #1, Diesel Fuel/Digester Gas/Natural Gas Fired | DeLaval/Cooper | DGSR-46 | 25 MM BTU/hour, 28,600 $in^3$ displacement 2980 hp |
| S38 | Multi-Fuel Cogeneration Engine #2 Diesel Fuel/Digester Gas/Natural Gas Fired | DeLaval/Cooper | DGSR-46 | 25 MM BTU/hour, 28,600 $in^3$ displacement 2980 hp |
| S39 | Multi-Fuel Cogeneration Engine #3 Diesel Fuel/Digester Gas/Natural Gas Fired | DeLaval/Cooper | DGSR-46 | 25 MM BTU/hour, 28,600 $in^3$ displacement 2980 hp |
| S43 | Wet Weather Primary Sludge Thickeners (2) | Custom | Custom | N/A |
| S45 | Aerated Grit Tanks (8) | Custom | N/A | N/A |
| S47 | Scum Thickening Building | Custom | N/A | N/A |
| S48 | Gasoline Dispensing Facility #9008 | Emco-Wheaton | N/A | 3000 gallon Hoover above ground tank; ~~one~~ two gasoline dispensing nozzles |
| S50 | Diesel Engine Backup Generator | Detroit Diesel | 10437316 | 238 HP |
| S51 | Diesel Engine Backup Generator | Generac | 440FER82 12 GGW | 268 HP |
| ~~S-52~~ | ~~Diesel Engine Backup Generator~~ | ~~Generac~~ | ~~unknown~~ | ~~280 HP~~ |
| S53 | Diesel Engine Backup Generator | Cummins | 6CTA8.3-G | 277 HP |
| S54 | Diesel Engine Backup Generator | Caterpillar | 3412B | 1114 HP, 1649 $in^3$ displacement |

# II. Equipment List

## Table II – A
## Permitted Sources

| S-# | Description | Make or Type | Model | Capacity |
|---|---|---|---|---|
| S55 | Hot Water Boiler, Digester Gas Fired | Cleaver-Brooks | W28-HHW-BLR-001 | 20.41 MM BTU/hour |
| S56 | Digester Gas Turbine #1, Digester Gas Fired | Solar | Mercury 50 | 4.5 MW; 44.5 MM BTU/hour |
| S58 | Emergency Standby Diesel Generator Set | Caterpillar | C13 | 430 HP |
| S100 | Wastewater Treatment Plant-Fugitive Emissions 120 MMGD Dry Weather Flowrate: 325 MMGD Wet Weather Flowrate | Custom | ~~A3003/ A3005~~N/A | N/A |
| S110 | Headworks, IPS, Barscreens | Custom | N/A | N/A |
| S120 | Primary Treatment; 16 Sedimentation Tanks | Custom | N/A | N/A |
| S130 | Secondary Treatment; 8 HPO Activated Sludge Units | Custom | N/A | N/A |
| S140 | Secondary Clarifiers; 12 Clarifiers | Custom | N/A | N/A |
| S160 | Disinfection; Chlorination Contact Tanks, Non-ducted, Effluent | Custom | N/A | N/A |
| S170 | Sludge Handling, 3 WAS GBTs,- 6 Dewatering Centrifuges | Custom | N/A | N/A |
| S172 | Pre-Digestion Blend Tanks | Custom | N/A | 200,000 gallons/tank (2 tanks) |
| S180 | Anaerobic Digesters (11), ~~10 Floating Cover,~~32 Floating, ~~7~~ 8 Fixed, 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 |
|---|---|---|---|---|---|
| A7 | Atomized Mist Scrubber | S170, | BAAQMD Reg 1-301 | None Listed | N/A |
| A190 | Digester Gas Flare, 10.5 MM Btu/hr | S180 | BAAQMD Reg 1-301, 8-2-301 | None Listed | < 15 lb/day & 300 ppm C |
| A191 | Digester Gas Flare, 10.5 MM Btu/hr | S180 | BAAQMD Reg 1-301, 8-2-301 | None Listed | < 15 lb/day & 300 ppm C |
| A192 | Digester Gas Flare, 10.5 MM Btu/hr | S180 | BAAQMD Reg 1-301, 8-2-301 | None Listed | < 15 lb/day & 300 ppm C |
| A193 | Digester Gas Flare, 10.5 MM Btu/hr | S180 | BAAQMD Reg 1-301, 8-2-301 | None Listed | < 15 lb/day & 300 ppm C |
| A194 | Digester Gas Enclosed Flare, 63 MMBtu/hr | S180 | BAAQMD Reg 1-301, 9-1-302 | Temperature ≥ 1,500 F (averaged over any 3-hour period), Residence time ≥ 0.6 seconds | ≤ 0.06 lbs NOx/MMBtu, ≤ 0.2 lbs CO/MMBtu, and ≤ 0.032 lbs $H_2S$/hour |
| A195 | Digester Gas Enclosed Flare, 63 MMBtu/hr | S180 | BAAQMD Reg 1-301, 9-1-302 | Temperature ≥ 1,500 F (averaged over any 3-hour period), Residence time ≥ 0.6 seconds | ≤ 0.06 lbs NOx/MMBtu, ≤ 0.2 lbs CO/MMBtu, and ≤ 0.032 lbs $H_2S$/hour |
| A461 | Carbon Bed Scrubber | S110 | BAAQMD Reg 1-301 | None Listed | N/A |
| A462 | Carbon Bed Scrubber | S110 | BAAQMD Reg 1-301 | None Listed | N/A |

# 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**

| S-# | Description | Type or Make and Model | Capacity | Comments |
|---|---|---|---|---|
| S-~~49~~ | ~~Portable Diesel Engine, Backup Generator~~ | ~~Allis Chalmers~~ | ~~134 bhp, 3500 MK11~~ | ~~Exempt per 2-1-114~~ |
| S171 | Fats, Oils, Grease (FOG) Receiving Station | Custom | 32,000 gallons/tank (2 tanks) | Exempt per 2-123.3.2 and 2-1-113.2.4 |
| S463 | Portable Diesel Engine, Prime Engine | John Deere | 115 hp | Exempt per 2-6-114 |
| S464 | Portable Diesel Engine, Prime Engine | Deutz | 78 hp | Exempt per 2-6-114 |
| n/s | Resource Recovery High Strength Station | Custom | Five (5) 25,000 Underground Tanks | Exempt per 2-1-113 and 2-1-123 |

# 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 the SIP requirements are posted on the EPA Region 9 website. The address is:

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

https://www.epa.gov/sips-ca/epa-approved-bay-area-air-district-regulations-california-sip

**NOTE:**

There are differences between the current BAAQMD rules and the versions of the rules in the SIP. All sources must comply with both versions of a rule until US EPA has reviewed and approved the District's revision of the regulation.

**Table III**
**Generally Applicable Requirements**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) |
|---|---|---|
| BAAQMD Regulation 1 | General Provisions and Definitions (5/4/11) | N |
| SIP Regulation 1 | General Provisions and Definitions (6/28/99) | Y |
| BAAQMD Regulation 2, Rule 1 | Permits – General Requirements (~~4/18~~12/19/12) | N |

# III. General Applicable Requirements

## Table III
## Generally Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) |
|---|---|---|
| BAAQMD 2-1-429 | Federal Emissions Statement (12/21/04) | N |
| SIP Regulation 2, Rule 1 | Permits – General Requirements (~~1/26/99~~8/1/16) | Y |
| SIP Regulation 2-1-429 | Federal Emissions Statement (4/3/95) | Y |
| BAAQMD Regulation 2, Rule 5 | Permits – New Source Review of Toxic Air Contaminants (~~1/6/10~~12/17/16) | 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 (~~7/9/08~~6/19/13) | 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 (7/1/09) | N |
| SIP Regulation 8, Rule 3 | Organic Compounds – Architectural Coatings (1/2/04) | Y |
| BAAQMD Regulation 8, Rule 4 | Organic Compounds – General Solvent and Surface Coating Operations (10/16/02) | Y |
| BAAQMD Regulation 8 Rule 15 | Organic Compounds – Emulsified and Liquid Asphalts (6/1/94) | Y |
| BAAQMD Regulation 8, Rule 16 | Organic Compounds – Solvent Cleaning Operations (10/16/02) | Y |
| BAAQMD Regulation 8, Rule 40 | Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/05) | N |
| BAAQMD 8-40-116 | Exemption, Small Volume (12/15/99) | Y |
| BAAQMD 8-40-117 | Exemption, Accidental Spills (12/15/99) | Y |
| SIP Regulation 8, Rule 40 | Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (4/19/01) | Y |
| BAAQMD Regulation 8, Rule 47 | Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (6/15/05) | N |
| SIP Regulation 8, Rule 47 | Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (4/26/95) | Y |
| BAAQMD Regulation 8, Rule 49 | Organic Compounds – Aerosol Paint Products (12/20/95) | N |
| SIP Regulation 8, Rule 49 | Organic Compounds – Aerosol Paint Products (3/22/95) | Y |

# III. General Applicable Requirements

## Table III
## Generally Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) |
|---|---|---|
| BAAQMD Regulation 8, Rule 51 | Organic Compounds – Adhesive and Sealant Products (7/17/02) | N |
| SIP Regulation 8, Rule 51 | Organic Compounds – Adhesive and Sealant Products (2/26/02) | Y |
| BAAQMD Regulation 9, Rule 1 | Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95) | N |
| SIP Regulation 9, Rule 1 | Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99) | Y |
| BAAQMD Regulation 9, Rule 2 | Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99) | N |
| BAAQMD Regulation 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 (CI) Engines (5/19/11) | 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 |
| 40 CFR Part 61, Subpart A | National Emission Standards for Hazardous Air Pollutants – General Provisions (9/13/10) | Y |
| 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~~

https://www.epa.gov/sips-ca/epa-approved-bay-area-air-district-regulations-california-sip

All other text may be found in the regulations themselves.

**Table IV-A**
**Source Specific Applicable Requirements**
**S37 Multi-Fuel Cogeneration Engine #1**
**S39 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~~8/1/18)** | | |
| 6-1-~~303~~301 | Ringelmann No. ~~2~~1 Limitation | N | |
| 6-1-310 | Total Suspended Particulate (TSP) Concentration Limits~~Particulate Weight Limitation~~ | N | |
| 6-1-310.1 | 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 | |

# IV. Source-Specific Applicable Requirements

## Table IV-A
## Source Specific Applicable Requirements
## S37 Multi-Fuel Cogeneration Engine #1
## S39 Multi-Fuel Cogeneration Engine #3

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **SIP Regulation 6** | **Particulate Matter and Visible Emissions (9/4/98)** | | |
| 6-30~~3~~1 | Ringelmann No. ~~2~~1 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 | |
| **BAAQMD Regulation 8, Rule 2** | **Organic Compounds – Miscellaneous Operations (7/20/05)** | | |
| 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 | 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 | |
| 9-8-502 | Recordkeeping | N | |
| 9-8-502.3 | For a minimum of 24 months from date of creation | N | |
| 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 | |
| 9-8-502 | Recordkeeping | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV-A
## Source Specific Applicable Requirements
## S37 Multi-Fuel Cogeneration Engine #1
## S39 Multi-Fuel Cogeneration Engine #3

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **40 CFR Part 63, Subpart A** | **National Emission Standards for Hazardous Air Pollutants – General Provisions (9/13/10)** | | |
| 63.4 | Prohibited activities and circumvention | Y | |
| 63.5 | Preconstruction review and notification requirements | Y | |
| 63.5(b) | Requirements for existing, newly constructed, and reconstructed sources | Y | |
| 63.6 | Compliance with standards and maintenance requirements | Y | |
| 63.8 | Monitoring requirements | Y | |
| 63.10 | Record keeping and reporting requirements | Y | |
| 63.10(b) | General record keeping requirements | Y | |
| 63.10(c) | Additional record keeping requirements for sources with continuous monitoring systems | Y | |
| 63.10(d) | General reporting requirements | Y | |
| ~~63.10(e)~~ | ~~Additional reporting requirements for sources with continuous monitoring systems~~ | ~~Y~~ | |
| **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? | 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 | ~~5/3/2013~~ |

# IV. Source-Specific Applicable Requirements

## Table IV-A
## Source Specific Applicable Requirements
## S37 Multi-Fuel Cogeneration Engine #1
## S39 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? | Y | ~~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 | Y | ~~5/3/2013~~ |
| 63.6625(h) | Minimize engine idle time, not to exceed 30 minutes | Y | ~~5/3/2013~~ |
| 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 | |
| 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 | ~~5/3/2013~~ |
| Table 2.d.11c | Inspect all hoses and belts every 1440 hours of operation | Y | ~~5/3/2013~~ |
| Table 6 to Subpart ZZZZ | Continuous Compliance with Emission Limitations, Operating Limitations, Work Practices, and Management Practices | Y | ~~5/3/2013~~ |
| 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 and 8-2-301) | N | |
| **BAAQMD Condition # 20651** | | | |
| Part 10 | NOx Limit (Regulation 9-8-302) | N | |
| Part 11 | CO Limit (Regulation 9-8-302) | N | |

# IV. Source-Specific Applicable Requirements

## Table IV-A
## Source Specific Applicable Requirements
## S37 Multi-Fuel Cogeneration Engine #1
## S39 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 | | |
| Part 18 | Recordkeeping (Regulations 2-6-409.2 and 2-6-501) | Y | |
| Part 19 | Annual Performance Test Requirement (Regulations 2-6-409.2) | Y | |
| Part 20 | Records Retention (Regulations 2-6-409) | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV-B
## Source Specific Applicable Requirements
## S38 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~~8/1/18)** | | |
| 6-1-30~~3~~1 | Ringelmann No. ~~2~~1 Limitation | N | |
| 6-1-310 | Total Suspended Particulate (TSP) Concentration Limits~~Particulate Weight Limitation~~ | N | |
| 6-1-310.1 | 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)** | | |
| 6-30~~3~~1 | Ringelmann No. ~~2~~1 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 | Y | |
| **BAAQMD Regulation 9, Rule 1** | **Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)** | | |
| 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 | |
| 9-8-502 | Recordkeeping | N | |
| 9-8-502.3 | For a minimum of 24 months from date of creation | N | |

# IV. Source-Specific Applicable Requirements

## Table IV-B
## Source Specific Applicable Requirements
## S38 Multi-Fuel Cogeneration Engine #2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 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 | |
| 9-8-502 | Recordkeeping | Y | |
| **40 CFR Part 63, Subpart A** | **National Emission Standards for Hazardous Air Pollutants – General Provisions (9/13/10)** | | |
| 63.4 | Prohibited activities and circumvention | Y | |
| 63.5 | Preconstruction review and notification requirements | Y | |
| 63.5(b) | Requirements for existing, newly constructed, and reconstructed sources | Y | |
| 63.6 | Compliance with standards and maintenance requirements | Y | |
| 63.8 | Monitoring requirements | Y | |
| 63.10 | Record keeping and reporting requirements | Y | |
| 63.10(b) | General record keeping requirements | Y | |
| 63.10(c) | Additional record keeping requirements for sources with continuous monitoring systems | Y | |
| 63.10(d) | General reporting requirements | Y | |
| ~~63.10(e)~~ | ~~Additional reporting requirements for sources with continuous monitoring systems~~ | ~~Y~~ | |
| **40 CFR Part 63 Subpart ZZZZ** | **National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (~~8/20/2010~~ 2/5/14)** | | |
| 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 | |

# IV. Source-Specific Applicable Requirements

## Table IV-B
## Source Specific Applicable Requirements
## S38 Multi-Fuel Cogeneration Engine #2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 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 | |
| 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** | | | |

# IV. Source-Specific Applicable Requirements

## Table IV-B
## Source Specific Applicable Requirements
## S38 Multi-Fuel Cogeneration Engine #2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 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 (Regulations 2-6-409.2 and 2-6-501) | Y | |
| Part 19 | Annual Performance Test Requirement (Regulations 2-6-409.2) | Y | |
| Part 20 | Records Retention (Regulation 2-6-409) | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV-C
## Source Specific Applicable Requirements
## S43 Wet Weather Primary Sludge Thickeners,
## S45 Aerated Grit Building,
## S47 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 | Y | |
| **BAAQMD Condition # 2409** | | | |
| Part 1 | Consequences of Odor Complaints (Regulation 2-1-403) | N | |

# IV. Source-Specific Applicable Requirements

## Table IV-D
## Source Specific Applicable Requirements
## S48, Non- Retail Gasoline Dispensing Facility #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 | Y | |
| 8-7-114 | Stationary Tank Testing Exemption | Y | |
| 8-7-116 | Periodic Testing Requirements Exemption | Y | |
| 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 Pipe Requirements | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV-D
## Source Specific Applicable Requirements
## S48, Non- Retail Gasoline Dispensing Facility #9008

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-7-301.5 | Maintenance and Operation of Phase I Equipment per Manufacturers and/or the applicable CARB Executive Order | Y | |
| 8-7-301.6 | Leak-Free, Vapor-Tight Requirements for Components | Y | |
| 8-7-301.7 | Fitting Requirements for Vapor Return Line Poppetted 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 | |
| 8-7-302.10 | Construction Materials Specifications | Y | |
| 8-7-302.12 | Liquid Retain Limitation | Y | |
| 8-7-302.13 | Nozzle Spitting Limitation | Y | |
| 8-7-302.14 | Annual Back Pressure Test Requirements for Balance Systems | Y | |
| 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 | |
| 8-7-311 | Exempt Tank Requirements | Y | |
| 8-7-313 | Requirements for New and Modified Phase II Installations | Y | |
| 8-7-316 | Pressure Vacuum Valves, Aboveground Storage Tanks and Vaulted Below Grade Storage Tanks | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV-D
## Source Specific Applicable Requirements
## S48, Non- Retail Gasoline Dispensing Facility #9008

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-7-401 | Equipment Installation and Modification | Y | |
| 8-7-406 | Testing Requirements, New and Modified Installations | Y | |
| 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 | |
| 8-7-503.1 | Gasoline Throughput Records | Y | |
| 8-7-503.2 | Maintenance Records | Y | |
| 8-7-503.3 | Records Retention Time | Y | |
| **40 CFR Part 63, Subpart A** | **National Emission Standards for Hazardous Air Pollutants – General Provisions (9/13/10)** | | |
| 63.4 | Prohibited activities and circumvention | Y | |
| 63.5 | Preconstruction review and notification requirements | Y | |
| 63.5(b) | Requirements for existing, newly constructed, and reconstructed sources | Y | |
| 63.6 | Compliance with standards and maintenance requirements | Y | |
| 63.8 | Monitoring requirements | Y | |
| 63.10 | Record keeping and reporting requirements | Y | |
| 63.10(b) | General record keeping requirements | Y | |
| 63.10(c) | Additional record keeping requirements for sources with continuous monitoring systems | Y | |
| 63.10(d) | General reporting requirements | Y | |
| 63.10(e) | Additional reporting requirements for sources with continuous monitoring systems | Y | |
| **40 CFR Part 63 Subpart CCCCCC** | **National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities (1/24/2011)** | | |
| 63.11110 | What is the purpose of this subpart? | Y | |
| 63.11111 | Am I Subject to the requirements in this subpart | Y | |
| 63.11111(a) | Each GDF that is located at an area source | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV-D
## Source Specific Applicable Requirements
## S48, Non- Retail Gasoline Dispensing Facility #9008

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 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(3) | The initial compliance demonstration test required per 63.11120(a)(1 and 2) must be conducted as specified below in (e)(1 and 2) | 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) | Handling requirements to prevent vapor releases to atmosphere | Y | |
| 63.11116(a)(1) | Minimize gasoline spills | Y | |
| 63.11116(a)(2) | Clean up spills as expeditiously as practicable | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV-D
## Source Specific Applicable Requirements
## S48, Non- Retail Gasoline Dispensing Facility #9008

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 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 | |
| 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) | Y | |
| 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(e) | You must submit the applicable notification as specified in 63.11124 (a) | Y | |
| 63.11117(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 | Y | |
| 63.111124 | What notifications must I submit and when? | Y | |
| 63.111124(a) | Each owner/operator subject to control per 63.11117 must comply with (a)(1-3) | Y | |
| 63.111124(a)(1) | Subject to initial notification requirements | | |
| 63.111124(a)(1)(i) | The name and address of the owner and operator | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV-D
## Source Specific Applicable Requirements
## S48, Non- Retail Gasoline Dispensing Facility #9008

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 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 | |
| 63.111124(a)(2) | Submit Notification of Compliance Status to EPA within 60 days of compliance date unless you meet (a)(3) below | Y | |
| 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 | Y | |
| 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 63.1115(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 | |

# IV. Source-Specific Applicable Requirements

## Table IV-D
## Source Specific Applicable Requirements
## S48, Non- Retail Gasoline Dispensing Facility #9008

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Condition # 24887** | | | |
| Part 1 | PV valve requirement | Y | |
| Part 2 | White paint requirement | Y | |
| **BAAQMD Condition # 24887** | | | |
| Part 1 | Operation and maintainance | N | |
| Part 2 | Tanks meeting the Standing Loss Control requirements of CARB Executive Orders VR-301 or VR-302 (Equipment Certification) | N | |
| Part 3 | Static Pressure Performance Test (Periodic Testing) | N | |
| Part 4 | Test requirements (2-1-403) | N | |
| **BAAQMD Condition # 25107** | **Annual Leak Test (Regulation 8-7-407)** | **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~~ | ~~N~~ | |
| ~~Paragraph 10~~ | ~~Nozzle Type Requirements for New Installations~~ | ~~N~~ | |
| ~~Paragraph 11~~ | ~~Dispensing Rate Limit~~ | ~~N~~ | |
| ~~Paragraph 12~~ | ~~Restrictions on Use of Nozzle Extenders~~ | ~~N~~ | |
| ~~Paragraph 13~~ | ~~Requirement to Comply with Other Agencies' Rules and Regulations~~ | ~~N~~ | |
| ~~Paragraph 14~~ | ~~Nozzle Performance Shall Conform to Certification~~ | ~~N~~ | |
| ~~Paragraph 15~~ | ~~Prohibition on Alteration of Equipment, Parts, Design, or Operation~~ | ~~N~~ | |
| ~~Paragraph 16~~ | ~~Operating and Maintenance Requirements~~ | ~~N~~ | |
| ~~**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~~ | |

# IV. Source-Specific Applicable Requirements

## Table IV-D
## Source Specific Applicable Requirements
## S48, Non- Retail Gasoline Dispensing Facility #9008

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| ~~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~~ | |
| ~~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** | | |

# IV. Source-Specific Applicable Requirements

## Table IV-D
## Source Specific Applicable Requirements
## S48, Non- Retail Gasoline Dispensing Facility #9008

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 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
## S50 Diesel Engine BUG, Detroit Diesel 1043731616, 238 hp
## S51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp
## ~~S-52 Diesel Engine BUG, Generac, 280 hp~~
## S53 Diesel Engine BUG, S/N 44852080, 277 hp
## S58 Emergency Standby Diesel Generator Set, Model C13, 430 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~~8/1/18)** | | |
| 6-1-303 | Ringelmann No. 2 Limitation | N | |
| 6-1-303.1 | Internal combustion engines below 1500 cubic inches displacement or standby engines | N | |
| 6-1-305 | Visible Particulates | N | |
| 6-1-310.1 | Total Suspended Particulate (TSP) Concentration Limits~~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 | 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 1** | **Organic Compounds – General Provisions (6/15/94)** | | |
| 8-1-110.2 | Exemptions – Internal Combustion Engine | Y | |
| **BAAQMD 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-E
## Source Specific Applicable Requirements
## S50 Diesel Engine BUG, Detroit Diesel 1043731616, 238 hp
## S51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp
## ~~S 52 Diesel Engine BUG, Generac, 280 hp~~
## S53 Diesel Engine BUG, S/N 44852080, 277 hp
## S58 Emergency Standby Diesel Generator Set, Model C13, 430 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 | |
| 9-8-330.1 | For Emergency Use | N | |
| 9-8-330.3 | For Reliability-Related Activities | N | |
| 9-8-331 | Hours of Operation, Essential Public Service Standby Engines | N | |
| 9-8-331.1 | For Emergency Use | N | |
| 9-8-502 | Recordkeeping | N | |
| 9-8-502.1 | Recordkeeping, Demonstration of Emergency Standby Status- For Exempt Engines | N | |
| 9-8-530 | Monitoring and Recordkeeping, Emergency Standby Engines; Non-resettable Totalizing Meter | N | |
| 9-8-530.1 | Hours of Operation (total) | N | |
| 9-8-530.2 | Hours of Operation (emergency) | N | |
| 9-8-530.3 | Nature of Each Emergency Condition | N | |
| **SIP Regulation 9, Rule 8** | **Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (12/15/97)** | | |
| 9-8-101 | This rule does not apply to emergency generators- Reg 1-110.2 | Y | |
| **40 CFR Part 60, Subpart IIII** | **Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (applies to S58)** | | |
| 60.4200(a)(2) | Manufacture date applicability | | |
| 60.4204(b) | Emissions standards | | |
| 60.4207(a) | Limits sulfur content of diesel | | |
| 60.4209 | Monitoring, record keeping, and reporting requirements | | |
| 60.4211(a) | Operation in compliance with manufacturers specifications | | |
| 60.4211(c) | Compliance with CARB-certified emissions | | |
| 60.4211(f) | Hours of operation | | |
| 60.4214(c) | Notification, reports, and records | | |

# IV. Source-Specific Applicable Requirements

## Table IV-E
## Source Specific Applicable Requirements
## S50 Diesel Engine BUG, Detroit Diesel 1043731616, 238 hp
## S51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp
## ~~S 52 Diesel Engine BUG, Generac, 280 hp~~
## S53 Diesel Engine BUG, S/N 44852080, 277 hp
## S58 Emergency Standby Diesel Generator Set, Model C13, 430 hp

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **40 CFR Part 63, Subpart A** | **National Emission Standards for Hazardous Air Pollutants – General Provisions (9/13/10)** (applies to S50, S51 and S53) | | |
| 63.4 | Prohibited activities and circumvention | Y | |
| 63.5 | Preconstruction review and notification requirements | Y | |
| 63.5(b) | Requirements for existing, newly constructed, and reconstructed sources | Y | |
| 63.6 | Compliance with standards and maintenance requirements | Y | |
| 63.8 | Monitoring requirements | Y | |
| 63.10 | Record keeping and reporting requirements | Y | |
| 63.10(b) | General record keeping requirements | Y | |
| 63.10(c) | Additional record keeping requirements for sources with continuous monitoring systems | Y | |
| 63.10(d) | General reporting requirements | Y | |
| 63.10(e) | Additional reporting requirements for sources with continuous monitoring systems | Y | |
| **40 CFR Part 63 Subpart ZZZZ** | **National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (~~8/20/10~~ 2/5/14)** | | |
| 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 | |
| 63.6590(a)(2)(iii) | Threshold date for new stationary RICE | | |
| 63.6590(c)(1) | Stationary RICE subject to Regulations under 40 CFR 60 for new RICE in area source | | |
| 63.6595 | When do I have to comply with this subpart? | Y | |

# IV. Source-Specific Applicable Requirements

**Table IV-E**
**Source Specific Applicable Requirements**
**S50 Diesel Engine BUG, Detroit Diesel 1043731616, 238 hp**
**S51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp**
**~~S 52 Diesel Engine BUG, Generac, 280 hp~~**
**S53 Diesel Engine BUG, S/N 44852080, 277 hp**
**S58 Emergency Standby Diesel Generator Set, Model C13, 430 hp**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 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? | 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) | If you own or operate any of the following RICE, you must operate and maintain it and any associated control devices according to manufacturers' emission related instructions | Y | |
| 63.6625(e)(3) | Existing Emergency RICE Located at an Area Source of HAPs | Y | |
| 63.6625(f) | Install a non-resettable hour meter if one is not already installed | Y | |
| 63.6625(h) | Minimize engine idle time, not to exceed 30 minutes | Y | ~~5/3/13~~ |
| 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 | ~~5/3/13~~ |
| 63.6640(f)(1) | Requirements for existing emergency RICE located at an area source of HAPs | Y | ~~5/3/13~~ |
| 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) | Submit all notifications required by 63.7(b-c), 63.8(e, f(4), f(6)), and 63.9(b-e, g, h) | Y | |
| 63.6645(a)(5) | Notification requirements do not apply to this source | Y | |
| 63.6655 | What Records must I keep? | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV-E
## Source Specific Applicable Requirements
## S50 Diesel Engine BUG, Detroit Diesel 1043731616, 238 hp
## S51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp
## ~~S 52 Diesel Engine BUG, Generac, 280 hp~~
## S53 Diesel Engine BUG, S/N 44852080, 277 hp
## S58 Emergency Standby Diesel Generator Set, Model C13, 430 hp

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.6655(e) | Records of maintenance on engine and control device performed per manufacturers' requirements | Y | |
| 63.6655(e)(2) | for an existing stationary emergency RICE | Y | |
| 63.6655(f) | Records of hours of operation using non-resettable meter | Y | |
| 63.6655(f)(2) | for an existing emergency RICE located at an area source of HAPs | 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 (5/19/11)** | | |
| §93115.5 | Fuel and Fuel Additive Requirements for New and In-use Stationary CI Engines > 50 bhp | N | |
| 93115.5(b) | Fuel requirements as of 1/1/06 for 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-E**
**Source Specific Applicable Requirements**
**S50 Diesel Engine BUG, Detroit Diesel 1043731616, 238 hp**
**S51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp**
**~~S-52 Diesel Engine BUG, Generac, 280 hp~~**
**S53 Diesel Engine BUG, S/N 44852080, 277 hp**
**S58 Emergency Standby Diesel Generator Set, Model C13, 430 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 S52) | 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 S50 and S53) | N | |
| 93115.6(b)(3)(A)(2)(b) | Allow in-use stationary emergency standby diesel fuled 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 S51) | 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~~ | |

# IV. Source-Specific Applicable Requirements

**Table IV-E**
**Source Specific Applicable Requirements**
**S50 Diesel Engine BUG, Detroit Diesel 1043731616, 238 hp**
**S51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp**
**~~S 52 Diesel Engine BUG, Generac, 280 hp~~**
**S53 Diesel Engine BUG, S/N 44852080, 277 hp**
**S58 Emergency Standby Diesel Generator Set, Model C13, 430 hp**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| ~~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~~ | |
| **BAAQMD Condition # 22830** | **(applies to S50 and S53)** | | |
| Part 1 | Operating Time Limitation (CCR 93115.6(b)(3)(A)(1)(b)) | N | |
| Part 2 | Other Operational Limitations (CCR 93115.6(b)(3)(A)(1)(b)) | Y | |
| Part 3 | Meter Requirements (CCR, Title 17, Section 93115.10(d)(1)) | Y | |
| 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 | |
| **BAAQMD Condition # 22850** | **(applies to S51 and S58)** | | |
| Part 1 | Operating Time Limitation (CCR 93115.6(b)(3)(A)(2)(b)) | N | |
| Part 2 | Other Operational Limitations (CCR 93115.6(b)(3)(A)(2)(b)) | 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- F
## Source Specific Applicable Requirements
## S54 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~~8/1/18)** | | |
| 6-1-30~~3~~1 | Ringelmann No. ~~2~~1 Limitation | N | |
| 6-1-303.1 | Internal combustion engines below 1500 cubic inches displacement or standby engines | N | |
| 6-1-305 | Visible Particulates | N | |
| 6-1-310.1 | ~~Particulate Weight Limitation~~Total Suspended Particulate (TSP) Concentration Limits | N | |
| 6-1-401 | Appearance of Emissions | N | |
| **SIP Regulation 6** | **Particulate Matter and Visible Emissions (9/4/98)** | | |
| 6-30~~3~~1 | Ringelmann No. ~~2~~1 Limitation | Y | |
| 6-303.1 | Internal combustion engines below 1500 cubic inches displacement or standby engines | 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 1** | **Organic Compounds – General Provisions (6/15/94)** | | |
| 8-1-110.2 | Exemptions – Internal Combustion Engine | Y | |
| **BAAQMD 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)** | | |
| 9-8-110.5 | Exemption, Emergency Standby Engines | N | |
| 9-8-330 | Hours of Operation, Emergency Standby Engines | N | |
| 9-8-330.1 | For Emergency Use | N | |
| 9-8-330.3 | For Reliability-Related Activities | N | |

# IV. Source-Specific Applicable Requirements

## Table IV- F
## Source Specific Applicable Requirements
## S54 Diesel Engine BUG, Caterpillar 3412B, 1114 hp

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 9-8-331 | Hours of Operation, Essential Public Service Standby Engines | N | |
| 9-8-331.1 | For Emergency Use | N | |
| 9-8-502 | Recordkeeping | N | |
| 9-8-502.1 | Recordkeeping, Demonstration of Emergency Standby Status | N | |
| 9-8-530 | Monitoring and Recordkeeping, Emergency Standby Engines | N | |
| 9-8-530.1 | Hours of Operation (total) | N | |
| 9-8-530.2 | Hours of Operation (emergency) | N | |
| 9-8-530.3 | Nature of Each Emergency Condition | N | |
| **SIP Regulation 9, Rule 8** | **Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (12/15/97)** | | |
| 9-8-101 | This rule does not apply to emergency generators- Reg 1-110.2 | Y | |
| **40 CFR Part 63, Subpart A** | **National Emission Standards for Hazardous Air Pollutants – General Provisions (9/13/10)** | | |
| 63.4 | Prohibited activities and circumvention | Y | |
| 63.5 | Preconstruction review and notification requirements | Y | |
| 63.5(b) | Requirements for existing, newly constructed, and reconstructed sources | Y | |
| 63.6 | Compliance with standards and maintenance requirements | Y | |
| 63.8 | Monitoring requirements | Y | |
| 63.10 | Record keeping and reporting requirements | Y | |
| 63.10(b) | General record keeping requirements | Y | |
| 63.10(c) | Additional record keeping requirements for sources with continuous monitoring systems | Y | |
| 63.10(d) | General reporting requirements | Y | |
| 63.10(e) | Additional reporting requirements for sources with continuous monitoring systems | Y | |
| **40 CFR Part 63 Subpart ZZZZ** | **National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (~~8/20/10~~ 2/5/14)** | | |
| 63.6585 | Am I subject to this part? | Y | |
| 63.6585(a) | Applicable to stationary RICE | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV- F
## Source Specific Applicable Requirements
## S54 Diesel Engine BUG, Caterpillar 3412B, 1114 hp

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 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? | Y | |
| 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) | If you own or operate any of the following RICE, you must operate and maintain it and any associated control devices according to manufacturers' emission related instructions | Y | |
| 63.6625(e)(3) | Existing Emergency RICE Located at an Area Source of HAPs | Y | |
| 63.6625(f) | Install a non-resettable hour meter if one is not already installed | 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 | |
| 63.6640(f) | Requirements for emergency stationary RICE | Y | |
| 63.6640(f)(1) | Requirements for existing emergency RICE located at an area source of HAPs | 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) | Submit all notifications required by 63.7(b-c), 63.8(e, f(4), f(6)), and 63.9(b-e, g, h) | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV- F
## Source Specific Applicable Requirements
## S54 Diesel Engine BUG, Caterpillar 3412B, 1114 hp

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.6645(a)(5) | Notification requirements do not apply to this source | Y | |
| 63.6655 | What Records must I keep? | Y | |
| 63.6655(e) | Records of maintenance on engine and control device performed per manufacturers' requirements | Y | |
| 63.6655(e)(2) | for an existing stationary emergency RICE | Y | |
| 63.6655(f) | Records of hours of operation using non-resettable meter | Y | |
| 63.6655(f)(2) | for an existing emergency RICE located at an area source of HAPs | 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 | |
| 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 (5/19/11)** | | |
| 93115.5 | Fuel and Fuel Additive Requirements for New and In-use Stationary CI Engines > 50 bhp | N | |
| 93115.5(b) | Fuel requirements as of 1/1/06 for 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 | N | |

# IV. Source-Specific Applicable Requirements

## Table IV- F
## Source Specific Applicable Requirements
## S54 Diesel Engine BUG, Caterpillar 3412B, 1114 hp

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 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 | |
| 93115.12 | 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 # 22850** | | | |
| 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-G
## Source Specific Applicable Requirements
## S55: 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~~8/1/18)** | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310.1 | Total Suspended Particulate (TSP) Concentration Limits~~Particulate Weight Limitation~~ | N | |
| 6-1-310.3 | Heat transfer operation | | |
| 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 | Y | |
| **BAAQMD Regulation 9, Rule 1** | **Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)** | | |
| 9-1-301 | Limitations on Ground Level Concentrations | Y | |
| 9-1-302 | General Emission Limitations | Y | |
| **BAAQMD Regulation 9, Rule 7** | **Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (5/4/11)** | | |
| ~~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~~ | |

# IV. Source-Specific Applicable Requirements

## Table IV-G
## Source Specific Applicable Requirements
## S55: Hot Water Boiler

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| ~~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 | |
| 9-7-308 | Compliance Schedule | N | |
| 9-7-308.3 | Effective Date 5 years after original manufacture date (May 2011 because manufacturer date = May 2006) | N | |
| 9-7-311 | Insulation Requirements-not to exceed 120 $^{o}$F | N | |
| 9-7-312 | Stack Gas Temperature Limits | N | ~~1/1/2013~~ |
| 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 | |
| 9-7-506 | Periodic Testing | N | |
| **SIP Regulation 9, Rule 7** | **Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (12/15/97)** | | |
| ~~9-7-111~~ | ~~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~~ | ~~Y~~ | |
| ~~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 | |

# IV. Source-Specific Applicable Requirements

## Table IV-G
## Source Specific Applicable Requirements
## S55: Hot Water Boiler

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| ~~9-7-504~~ | ~~Low Fuel Usage- Monitoring and Records~~ | ~~Y~~ | |
| **BAAQMD Condition # 18860** | | | |
| Part 1 | Emissions shall be abated at all times (Regulations 1-301 and 8-2-301) | N | |
| **BAAQMD Condition # 20651** | | | |
| Part 1 | Allowable fuel Type (Cumulative Increase) | Y | |
| Part 2 | Maximum Allowable Operation: The Boiler S55 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 | | |
| 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-H
## Source Specific Applicable Requirements
## S56,~~:~~ Digester Gas Turbine#1

| 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~~8/1/18)** | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310.1 | Total Suspended Particulate (TSP) Concentration Limits~~Particulate Weight Limitation~~ | N | |
| 6-1-310.1 | 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 | Y | |
| 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 | Y | |
| **BAAQMD Regulation 9, Rule 1** | **Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)** | | |
| 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 9** | **Inorganic Gaseous Pollutants – Nitrogen Oxides from Stationary Gas Turbines (12/6/06)** | | |
| 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 | |

# IV. Source-Specific Applicable Requirements

## Table IV-H
## Source Specific Applicable Requirements
## S56, Digester Gas Turbine#1

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 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 | |
| 9-9-302.1 | Emission Limit, Low Usage | N | |
| 9-9-401 | Efficiency Certification | N | |
| 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 (12/15/97)** | | |
| 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 | |
| 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 – General Provisions 9/13/10)** | 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 | |

# IV. Source-Specific Applicable Requirements

## Table IV-H
## Source Specific Applicable Requirements
## S56, Digester Gas Turbine#1

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 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 | |
| ~~40 CFR Part 60 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)~~ | ~~For any stationary gas turbine subject to this subpart~~ | ~~Y~~ | |
| ~~60.334(h)(1)~~ | ~~Fuel sulfur content~~ | ~~Y~~ | |
| ~~60.334(h)(2)~~ | ~~Fuel Nitrogen content~~ | ~~Y~~ | |
| ~~60.335~~ | ~~Test methods and procedures~~ | ~~Y~~ | |
| **40 CFR Part 60 Subpart KKKK** | **Standards of Performance for Stationary Gas Turbines (7/1/06)** | | |
| 60.4320 | What emission limits must I meet for nitrogen oxides (NOX)? | Y | |
| 60.4320(a) | NOx limit in Table 1- | Y | |
| 60.4330 | What emission limits must I meet for sulfur dioxide (SO2)? | Y | |
| 60.4330(a)(3) | SO2 Limit- 0.15 lb SO2/MMBtu | Y | |
| 60.4333 | What are my general requirements for complying with this subpart? | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV-H
## Source Specific Applicable Requirements
## S56, ~~:~~ Digester Gas Turbine#1

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.4333(a) | Operation of equipment in a manner consistent with good air pollution control practices for minimizing emissions | Y | |
| 60.4340 | How do I demonstrate continuous compliance for NOX if I do not use water or steam injection? | Y | |
| 60.4340(a) | Annual performance tests | Y | |
| 60.4360 | How do I determine the total sulfur content of the turbine's combustion fuel? | Y | |
| 60.4365 | How can I be exempted from monitoring the total sulfur content of the fuel? | Y | |
| 60.4370 | How often must I determine the sulfur content of the fuel? | Y | |
| 60.4370(b) | Daily monitoring | Y | |
| 60.4375 | What reports must I submit? | Y | |
| 60.4385 | How are excess emissions and monitoring downtime defined for SO2? | Y | |
| 60.4385(a) | Procedures for daily samples | Y | |
| 60.4395 | When must I submit my reports? | Y | |
| 60.4400 | How do I conduct the initial and subsequent performance tests, regarding NOX? | Y | |
| 60.4415 | How do I conduct the initial and subsequent performance tests for sulfur? | Y | |
| **BAAQMD Condition # 18860** | | | |
| Part 1 | Emissions shall be abated at all times (Regulations 1-301 and 8-2-301) | N | |
| **BAAQMD Condition # 24050** | | | |
| 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~~KKKK, Section 60.5333(a)(3)~~333~~) | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV-H
## Source Specific Applicable Requirements
## S56, Digester Gas Turbine#1

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 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 and 2-6-501) | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV-I
## Source Specific Applicable Requirements
## S100, 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 | Y | |
| **BAAQMD Condition # 21759** | **Operating Requirements** | | |
| Part 1 | Wastewater Throughput (Cumulative Increase) | Y | |
| Part 2 | Consequences of odor complaints (Regulation 1-301; Public Nuisance) | Y | |
| Part 3 | Recordkeeping (Regulation 2-6-409.2) | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV-J
## Source Specific Applicable Requirements
## S110 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 | Y | |
| **BAAQMD Condition # 17335** | **Operating Requirements** | | |
| Part 1 | Abatement Requirements (Regulation 2-1-403) | N | |
| Part 2 | Abatement Device – Maintenance of Abatement Efficiency (Regulation 2-1-403) | N | |
| Part 3 | Monitoring Parameters- Inlet & Outlet H2S Measurements (Regulation 2-1-403) | N | |
| Part 4 | Recordkeeping (Regulation 2-1-403) | N | |
| Part 5 | Consequences of Odor Complaints (Regulation 2-1-403) | N | |

# IV. Source-Specific Applicable Requirements

**Table IV- K**
**Source Specific Applicable Requirements**
**S120 Primary Treatment, 16 Sedimentation Tanks**
**S130 Secondary Treatment, 8 HPO Activated Sludge Units C/V**
**S140 Secondary Clarifiers; 12 Clarifiers (mixed liquor)**
**S160 Disinfection; Chlorination Contact Tanks, non-ducted**

| 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 | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV-L
## Source Specific Applicable Requirements
## S170 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 | Y | |
| **BAAQMD Condition # 18006** | **Operating Requirements** | | |
| Part 1 | Activated Sludge Throughput: Monitoring & Recordkeeping required (Cumulative Increase) | Y | |
| Part 2 | Abatement Requirements (Regulation 1-301) | N | |
| Part 3 | Abatement Scrubber Maintenance (Regulation 2-1-403) | Y | |
| Part 4 | Recordkeeping (Regulation 2-6-409.2) | Y | |

## Table IV-M
## Source Specific Applicable Requirements
## S172 Pre-Digestion Blend Tanks

| 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 | 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 # 25919** | | | |
| Part 1 | Throughput Limit (Cumulative Increase) | Y | |
| Part 2 | Abatement Requirements (Cumulative Increase) | Y | |
| Part 3 | Operational Requirements (Cumulative Increase) | Y | |
| Part 4 | Emission Limits (Offsets) | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV-M
## Source Specific Applicable Requirements
## S172 Pre-Digestion Blend Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 5 | Public Nuisance Requirements (2-1-403) | Y | |
| Part 6 | Monitoring Requirements (Regulation 8-2) | Y | |
| Part 7 | Recordkeeping (Regulation 1-441 and Cumulative Increase) | Y | |
| Part 8 | Recordkeeping (Regulation 1-441 and Cumulative Increase) | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV-~~M~~N
## Source Specific Applicable Requirements
## S180 Anaerobic Digesters; 1~~2~~1: ~~3~~2 floating, ~~7~~8 fixed, 1 Dystor ~~Floating Cover Digesters~~; A190 through A195, Flares

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 6, Rule 1** | **Particulate Matter – General Requirements (8/1/18) (Applies to flares only)** | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-310 | Total Suspended Particulate (TSP) Concentration Limits | N | |
| 6-1-310.1 | Particulate Concentration~~Weight~~ Limit~~ation~~ | N | |
| 6-1-401 | Appearance of Emissions | N | |
| **SIP Regulation 6** | **Particulate Matter and Visible Emissions (9/4/98) (Applies to flares only)** | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-401 | Appearance of Emissions | Y | |
| **BAAQMD Regulation 8, Rule 2** | **Organic Compounds – Miscellaneous Operation (7/20/05)** | | |
| 8-2-301 | Miscellaneous Operations Standards | 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 (Regulations 1-301 and 8-2-301) | N | |
| Part 2 | Secondary Abatement of Digester Gas (Regulation 1-301 and Cumulative Increase) | N | |
| Part 3 | Digester Gas Sulfur~~ide~~ ppm Limit (BACT) | N | |
| Part 4 | Digester gas flow to combustion devices (Cumulative Increase, Regulation 2-1-301) | Y | |
| Part 5 | Combustion zone temperature of A194 and A195 (Basis: Regulation 2-1-403) | Y | |
| Part 6 | A194 and A195 Fuel Input Limit (Basis: Cumulative Increase) | Y | |

# IV. Source-Specific Applicable Requirements

## Table IV-~~M~~N
## Source Specific Applicable Requirements
## S180 Anaerobic Digesters; 1~~2~~1: ~~3~~2 floating, ~~7~~8 fixed, 1 Dystor ~~Floating Cover Digesters~~; A190 through A195, Flares

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 7 | Source tests for A194 and A195 (Basis: Cumulative Increase, Regulation 2-1-301, 9-1-302) | Y | |
| Part 8 | Monitoring at A194 and A195 (Basis: Cumulative Increase, Regulation 2-1-301, 9-1-302) | Y | |
| Part 9 | NOx limit at A194 and A195 (RACT) | Y | |
| Part 10 | CO limit at A194 and A195 (RACT) | Y | |
| Part 11 | H2S limit at A194 and A195 (RACT) | N | |
| Part ~~4~~12 | Weekly Sulfur~~ide~~ Content Monitoring (Regulation 1-441) | N | |
| Part ~~5~~13 | Recordkeeping of flaring (Regulation 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 | 18860, 20651 | 18860, 20651 |
| 38 | 18860, 20651 | 18860, 20651 |
| 39 | 18860, 20651 | 18860, 20651 |
| 43 | *2409 | 2409 |
| 45 | *2409 | 2409 |
| 47 | *2409 | 2409 |
| 48 | ~~16516~~25107, 21663 | 25107, 21663 |
| 50 | ~~19040~~22830 | 22830 |
| 51 | ~~21921~~22850 | 22850 |
| ~~52~~ | ~~19184, 19058~~ | ~~22820~~ |
| 53 | ~~21924, 19040~~22830 | 22830 |
| 54 | 22850~~, 24733~~ | 22850 |
| 55 | 18860, 20651~~N/A~~ | 18860, 20651 |
| 56 | 18860, 24050~~N/A~~ | 18860, 24050 |
| 58 | N/A | 22850 |
| 100 | 21759 | 21759 |
| 110 | *17335 | *17335 |
| 170 | 18006 | 18006 |
| 172 | N/A | 25919 |
| 180 | 18860 | 18860 |

**Condition #2409**
S43, Wet Weather Primary Sludge Thickeners
S45, Aerated Grit Tanks
S47, 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**
S48, 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: Regulation 2-5-302)

**Condition 25107: Deleted, AN 26237**
~~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**
S110, Headworks: IPS, Barscreens, ducted to/abated by A461 and/or A462

*1. Source S110 shall be abated at all times by A461 and/or A462 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 A461 or A462 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 A461 and/or A462 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 A461 or A462 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 A7 or A8 Atomized Mist Scrubber

1. Throughput
EBMUD shall monitor and record on a daily basis the activated sewage sludge throughput through S170. (Basis: Cumulative Increase)

2. Abatement
All vapor emissions from S170 shall be routed under negative pressure to A7 or A8 Atomized Mist Scrubber. (Basis: Cumulative Increase)

3. A7 and A8 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 or all inspections and all maintenance work on A7 and A8. Records of each inspection shall consist of a log containing the date of inspection and the initials of the personnel that inspected A7 and/or A8.
   b. Records noting the occurrence and duration of any malfunction of A7 or A8, 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**
S180, Anaerobic Digesters

1. Emissions from S180 shall be abated at all times by combustion at any or all of the following sources: ~~S-56,~~ S37, S38, S39, S55 and S5~~6~~5, except as specified in Part 2. (Basis: Regulations 1-301, 8-2-301)

2. Emissions from S180 shall be abated by any of the following: A190, A191, A192, ~~or~~ A193, A194, or A195 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.~~b. Manual draining of condensate from digester gas piping.
   ~~d.~~c. Removing a digester or digester gas component from service.
   ~~e.~~d. Collecting digester sludge samples through thief holes on digester covers.
   ~~f.~~e. 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 Regulation 2-5-302~~. (Basis: Cumulative Increase and Regulations 1-301 and 2-5-302~~, Cumulative Increase~~)

3. Digester gas total sulfur content shall not exceed ~~340~~200 ppmv on an annual basis. (Basis: RACT, BACT)

4. The combined digester gas flow rate to the combustion sources shall not exceed 3,400 scfm as an annual average. In order to demonstrate compliance with this part, the owner/operator shall calculate and record, on a monthly basis, the maximum

## VI. Permit Conditions

daily, total monthly, and rolling 12-month heat input to each combustion source. (Basis: Cumulative Increase, Regulation 2-1-301)

5. The combustion zone temperature of A194 and A195 shall be maintained at a minimum of 1,500 degrees F, averaged over any 3-hour period, and maintain a residence time of at least 0.6 seconds. (Basis: Regulation 2-1-403)

6. The owner/operator of A194 and A195 shall install a District approved flowmeter to ensure the combined dry gas flow rate does not exceed 3,000 cfm over a one-hour period to the abatement devices. (Basis: Cumulative Increase)

7. The owner/operator shall ensure that an initial Air District approved source test is conducted within 60 days of initial startup of A194 and A195. Additional source testing shall be conducted on A194 and A195 every 8,760 hours of operation or 5 years, whichever comes first. The source test shall determine the following:

    a. Digester gas flow rate to each flare (dry basis);
    b. Concentrations (dry basis) of carbon dioxide (CO2), nitrogen (N2), oxygen (O2), methane (CH4), hydrogen sulfide (H2S) and total non-methane organic compounds (NMOC) in the digester gas;
    c. Stack gas flow rate from each flare (dry basis);
    d. Concentration (dry basis) of CH4, NMOC, ~~Nox~~NOx, CO, and O2 in the stack gas for each flare;
    e. The NMOC, methane, and hydrogen sulfide destruction efficiencies achieved by each flare; and
    f. The average combustion temperature for each flare during the test period.

    The Source Test Section of the District shall be contacted to obtain approval of the source test procedures at least 14 days in advance of each source test. 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 to the Source Test Section within 60 days of the test date. (Basis: Cumulative Increase, Regulation 2-1-301, 9-1-302)

8. In order to demonstrate compliance with the above conditions, the owner/operator shall maintain the following records in a District approved logbook:

    a. Record the operating times and the combined digester gas flow rate to A194 and A195 on a daily basis. Summarize these records on a monthly basis. Calculate and record the combined heat inputs to A194 and A195.
    b. Maintain continuous records of the combustion zone temperature for A194 and A195 during all hours of operation.

## VI. Permit Conditions

c. Maintain records of all test dates and the test results performed to demonstrate compliance with Parts 3, 4, and 5 above and any applicable rule or regulation.

All records shall be maintained on site or shall be made readily available to the District staff upon request for a period of at least 5 years from the date of entry. These record keeping requirements do not replace the record keeping requirements contained in any applicable rules or regulations. (Basis: Cumulative Increase, 2-1-301, 9-1-302)

9. The owner/operator shall ensure that the emissions of Nitrogen Oxides (NOx) from A194 and A195 do not exceed 0.06 pounds per million BTU (calculated as NO2). (Basis: RACT)

10. The owner/operator shall ensure that the emissions of Carbon Monoxide (CO) from A194 and A195 do not exceed 0.2 pounds per million BTU. (Basis: RACT)

11. The owner/operator shall ensure that the emissions of Hydrogen Sulfide (H2S) from A194 and A195 do not exceed 0.032 pounds per hour. (Basis: Regulation 9, -Rule 2)

12. The Permit Holder shall demonstrate compliance with the above limit by conducting 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.

13. 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

1. 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):

**Condition 18860**

S-180, Anaerobic Digesters

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 19184:** Deleted, AN 18480~~

**Condition 20651**
S55, Hot Water Boiler
S37, Multi-Fuel Cogeneration Engine #1
S38, Multi-Fuel Cogeneration Engine #2
S39, Multi-Fuel Cogeneration Engine #3

Conditions For S55 Hot Water Boiler (Parts 1 through 5)

1. Boiler S55 shall be fired only on sewage sludge digester gas. (Basis: Cumulative Increase)

2. Boiler S55 shall not be operated when more than two of the three cogeneration engines S37, S38, or S39 are operating. (Basis: Cumulative Increase)

3 Boiler Gross Heat Input:
   a. Deleted 7-2008 (AN 17749)
   b. S55: Not to exceed 20.41 million BTU/hr. (Basis: Cumulative Increase)

4. Deleted 7-2008 (AN 17749)

5. ~~Nox~~NOx and CO emissions from boiler S55 shall not exceed 30 and 50 ppm, respectively, at 3% oxygen, dry basis. (Basis: BACT)

Conditions Specific to Cogeneration Engine S38 (Parts 6 through 9)

6. ~~Nox~~NOx 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 S38 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)

# VI. Permit Conditions

**Condition 20651**
S55, Hot Water Boiler
S37, Multi-Fuel Cogeneration Engine #1
S38, Multi-Fuel Cogeneration Engine #2
S39, Multi-Fuel Cogeneration Engine #3

8. The total CO emissions from S38 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)

9. Filterable particulate emissions from S38 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 S37 and S39 (Parts 10 through 11)

150. ~~10.~~ The total nitrogen oxide emissions from each of the engines S37 and S39, shall not exceed 70 ppmvd @ 15% Oxygen. (Basis: Regulation 9-8-302)

151. ~~11.~~ The total carbon monoxide emissions from each of the engines, S37 and S39 shall not exceed 2000 ppmvd @15% Oxygen. (Basis: Regulation 9-8-302)

Conditions Specific to Engines S37, S38, S39 (Parts 12 through 15)

10. ~~12.~~ Cogeneration engines S37, S38, and S39 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.

11. ~~13.~~ Total thermal throughput shall not exceed 25MM Btu/hr per engine. (Basis: Cumulative Increase)

12. ~~14.~~ Total combined hours of operation of engines S37, S38, and S39 shall not exceed 25,316 hours in any rolling 365 day period. (Basis: Cumulative Increase)

# VI. Permit Conditions

**Condition 20651**
S55, Hot Water Boiler
S37, Multi-Fuel Cogeneration Engine #1
S38, Multi-Fuel Cogeneration Engine #2
S39, Multi-Fuel Cogeneration Engine #3

13. ~~15.~~ The total diesel fuel fed to engines S37, S38, and S39 combined shall not exceed 150,000 gallons in any rolling 365 day period. (Basis: Cumulative Increase)

14. ~~16.~~ Deleted 7-2008 (AN 17749)

15. ~~17.~~ Deleted 10-2006

16. ~~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 S37, S38, S39 and boiler S55.
    b. Total digester gas, natural gas, and/or diesel consumption for the engines and boiler S55.
    c. Records of hours of operation during transient periods with an explanation of the nature of the transient period.

17. ~~19.~~ The owner/operator shall ensure that an annual performance test is conducted on each engine and the boiler S55 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)

18. ~~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**
S100, 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

**Condition 22820**
S-52 Emergency Backup Generator: Diesel Fired, Installed before May 17, 2000

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 22830**
S50, S53 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 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

**Condition 22830**
S50, S53 Emergency Backup Generators: Diesel Fired, Installed before May 17, 2000

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**
S51, Emergency Backup Generator: Diesel Fired, Installed before May 17, 2000
S54, Emergency Backup Generator: Diesel Fired, Installed November 2006
S58, Emergency Standby Diesel Generator Set

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

**Condition 22850**

S51, Emergency Backup Generator: Diesel Fired, Installed before May 17, 2000
S54, Emergency Backup Generator: Diesel Fired, Installed November 2006

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 24050**

S56, Digester Gas Turbine #1, Solar Mercury 50 ultra-lean premix, recuperative 4.5 MW, 44.5 MM BTU/hour HHV

1. Gas turbine S56 shall be fired only on S~~190~~ 180 digester gas. (Basis: Cumulative Increase)

2. Total combined heat input to S56 gas turbine shall not exceed 389,820 MM BTU HHV during any consecutive 12-month period. Until 12-months of operation is reached, the turbine shall be limited to the above BTU limit prorated for the number of months of operation. (Basis: Cumulative Increase)

3. Nitrogen Oxide (NOx) emissions, calculated as NO2, from source S56 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 source S56 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 turbine shall not exceed ~~150 ppmv, dry, corrected to 15% oxygen~~0.15 lb/MMbtu. The owner or operator may demonstrate compliance with this part by analyzing the exhaust gas of ~~either~~ the 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~~day in accordance with Section 60.4360 and 60.4370 or any alternative monitoring approved by US EPA. (Basis: 40 CFR Part 60 Subpart ~~GG Section 60.333~~KKKK, Sections 60.4333(a)(3) 60.4360, and 60.4370)

6. The owner or operator shall install and maintain a District-approved totalizing digester gas fuel meter~~s~~ on ~~each~~ the turbine. (Basis: Cumulative Increase)

# VI. Permit Conditions

**Condition 24050**

S56, Digester Gas Turbine #1, Solar Mercury 50 ultra-lean premix, recuperative 4.5 MW, 44.5 MM BTU/hour HHV

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[DC1], 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 ~~Nox~~NOx, CO, NMOC, and O2 in the stack gas.

   The source test report shall provide the emissions results for ~~Nox~~NOx, 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~~4340(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 NOx and CO, corrected to 15% oxygen, dry, from ~~each operating~~the 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 NOx 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

**Condition 24050**

S56, Digester Gas Turbine #1, Solar Mercury 50 ultra-lean premix, recuperative 4.5 MW, 44.5 MM BTU/hour HHV

When the owner or operator is conducting multiple tests of NOx, CO and O2 emissions, the monthly (15 minute average) concentrations of NOx 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 NOx 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.

**Condition 24887**
Source S48 GDF G-9008

STANDING LOSS CONT~~O~~ROL (SLC) FOR EXISTING TANKS NOT CERTIFIED FOR SLC [DC2]

The owner/operator of the facility shall ensure the following:
1. This tank must be equipped with a PV (vent) valve certified for SLC pursuant to California Air Resources Board (CARB) Executive Ord VR-301
2. All exposed surfaces of the tank shall be coated with a white paint certified for SLC pursuant to VR-301. Paint shall be mixed and applied in conformance with the manufacturer~~-~~'s specifications, and the coating shall be maintained in good condition [DC3].

# VI. Permit Conditions

**Condition 25723**
Source S48 GDF G-9008

1. The owner/operator shall operate and maintain the Morrison Brothers EVR Phase I Vapor Recovery system, including all associated plumbing and components, in accordance with the most recent version of California Air Resources Board (CARB) Executive Order VR-402. [Basis: Equipment Certification]
2. The owner/operator shall only install the Morrison Brothers EVR Phase I Vapor Recovery System on tanks meeting the Standing Loss Control requirements of CARB Executive Orders VR-301 or VR-302. [Basis: Equipment Certification]
3. The owner/operator shall conduct and pass a Static Pressure Performance Test (CARB Test Procedure TP 206.3) at least once in each 12-month period. Measured leak rates of each component shall not exceed the levels specified in VR-402. [Basis: Periodic Testing]
4. The owner/operator shall:
    a. Notify Source Test by email (gdfnotice@baaqmd.gov) or fax (510-758-3087), at least 48 hours prior to any required testing.
    b. Submit test results in a District-approved format within thirty (30) days of testing.
        i. For start-up test results, cover sheet shall include the facility number (Facility ID) and application number of the Authority to Construct permit.
        ii. For annual test results, cover sheet shall include the facility number (Facility ID) and identified as 'Annual' in lieu of the application number.
        iii. Test results shall be emailed (gdfresults@baaqmd.gov) or mailed to the District's main office.

    [Basis: Regulation 2-1-403]

**Condition 25919**
S172, Pre-digestion Blend Tanks

1. The owner/operator of S172, Pre-digestion Blend Tanks, shall not exceed waste throughput limits of 2,100,000 gallons during any day. (Basis: Cumulative Increase)

2. The owner/operator shall ensure S172 is abated at all times of operation by A9, Iron Oxide Vessel and A10, Biofilter. A11, Activated Carbon shall be used during biofilter media growth periods and if A9 or A10 are out of service. A11, Activated Carbon, will remain in use after start-up until EBMUD receives approval from the Air District to remove it. (Basis: Cumulative Increase)

## VI. Permit Conditions

3. When heat is needed, the owner/operator shall heat the solids in S172, Pre-digestion Blend Tanks, using the facility hot water loop. (Basis: Cumulative Increase)

4. The owner/operator shall ensure that the precursor organic emissions of S172, Pre-digestion Blend Tanks, A9, Iron Oxide Vessel, A10, Biofilter, and A11, Activated Carbon, do not exceed 2.02 lbs/calendar day and 20.3 ppm total carbon on a daily basis. The exhaust gas flow shall not exceed 600 scfm. (Basis: Offsets)

5. The permit to operate for S172, Pre-digestion Blend Tanks, is contingent upon compliance with Regulation 1-301, Standard for Public Nuisance, and Regulation 7, Odorous Substances. Upon receiving 10 or more complaints regarding odor in a 90 day period, the owner/operator shall take corrective action. (Basis: Regulation 2-1-403)

6. To demonstrate compliance with part 4 of this condition the owner/operator of S172 shall take quarterly readings of POC at the outlet air stream of A10, Biofilter or A11, Activated Carbon. The owner/operator shall use a PID or a sample analyzed using EPA Test Method TO-15 to determine POC concentrations or an equivalent monitoring method approved by the Air Pollution Control Officer. (Basis: Regulation 8, Rule 2)

7. To determine compliance with the above conditions, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including but not limited to daily records of the following information:

   a. Quarterly POC concentration readings
   b. All source test results.

   (Basis: Regulation 1-441 and Cumulative Increase)

8. The owner/operator shall keep all monitoring, source test, and maintenance records as required by this condition, on site for at least five years from the date of data entry and the records shall be made available to District staff for inspection. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations. (Basis: Cumulative Increase and Regulation 2-6-501)

# VII. APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS

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

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

**Table VII-A**
**Applicable Limits and Compliance Monitoring Requirements**
**S37 Multi-Fuel Cogeneration Engine #1**
**S39 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 | N | | ≤ 70 ppmv @ 15% O2, dry | BAAQMD Condition # 20651, Part 19 | P/A | Source test |
| NOx | BAAQMD 9-8-302.1 | N | | < 70 ppmv @ 15% O2, dry | BAAQMD 9-8-503 | P/Q | Portable monitor |
| NOx | SIP 9-8-302.1 | Y | | ≤ 140 ppmv @ 15% O2, dry | BAAQMD Condition # 20651, Part 19 | P/A | Source test |
| NOx | BAAQMD Condition # 20651; Part 10 | N | | ≤ 70 ppmv @ 15% O2, dry | BAAQMD Condition # 20651, Part 19 | P/A | Source test |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII-A
## Applicable Limits and Compliance Monitoring Requirements
## S37 Multi-Fuel Cogeneration Engine #1
## S39 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 9-8-302.3 SIP 9-8-302.3 | Y | | ≤ 2000 ppmv @ 15% O2, dry | BAAQMD Condition # 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 9-8-503 | P/Q | Portable monitor |
| CO | BAAQMD Condition # 20651, Part 11 | Y | | ≤ 2000 ppmv @ 15% O2, dry | BAAQMD Condition # 20651, Part 19 | P/A | Source test |
| SO2 | BAAQMD 9-1-301 | Y | | GLC of: ≤ 0.5 ppm for 3 min, ≤ 0.25 ppm for 60 min, and ≤ 0.05 ppm for 24 hours | None | N | N |
| SO2 | BAAQMD 9-1-302 | Y | | ≤ 300 ppm (dry) | BAAQMD Condition # 18860, Part 124 | P/W or M | Sulfur Content Testing |
| Liquid Fuel Sulfur Content | BAAQMD 9-1-304 | Y | | Sulfur Content of Liquid Fuel: < 0.5% by weight | None | N | N |
| Opacity | BAAQMD 6-1-303301 and SIP 6-303301 | Y | | > Ringelmann 21.0 for no more than 3 min in any hour | N | N | N |



Renewal Date:

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII-A
## Applicable Limits and Compliance Monitoring Requirements
## S37 Multi-Fuel Cogeneration Engine #1
## S39 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 |
|---|---|---|---|---|---|---|---|
| FP | ~~BAAQMD 6-1-310 and~~ SIP 6-310 | Y | | ≤ 0.15 grains per dscf | N | N | N |
| | SIP 6-310.3 | y | | < 0.15 grains per dscf at 6% O2, dry | N | N | N |
| TSP | BAAQMD 6-1-310.1 & 6-1-310.3 | N | | < 0.15 grains per dscf at 6% O2, dry | N | N | N |
| POC | BAAQMD 8-2-301 and SIP 8-2-301 | Y | | ≤ 15 pounds/day or ≤ 300 ppm total carbon concentration | N | N | N |
| Fuel Input, Combined to S37, 38, 39 | BAAQMD Condition # 20651, Part 15 | Y | | ≤ 150,000 gallons in any rolling 365 day period | BAAQMD Condition # 20651, Part 18 | P/D | Records |
| Thermal Throughput | BAAQMD Condition # 20651, Part 13 | Y | | ≤ 25 E6 BTU/hour per engine | BAAQMD Condition # 20651, Part 18 | P/D | Records |
| Hours of Operation, S37, 38, 39 Combined | BAAQMD Condition # 20651, Part 14 | Y | | ≤ 25,316 hours in any rolling 365 day period | BAAQMD Condition # 20651, Part 18 | P/D | Records |
| Idle Time | 40 CFR 63.6625(h) | Y | ~~5/3/13~~ | < 30 minutes for start-up | None | N | N/A |
| Fuel Usage | 40 CFR 63.6655(c) | Y | ~~5/3/13~~ | record of daily fuel usage monitors | 40 CFR 63.6655(c) | D | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII-A
## Applicable Limits and Compliance Monitoring Requirements
## S37 Multi-Fuel Cogeneration Engine #1
## S39 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 |
|---|---|---|---|---|---|---|---|
| Maintenance Events | 40 CFR Part 63, Subpart ZZZZ Table 2d 11a | 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 |
| Maintenance Events | 40 CFR Part 63, Subpart ZZZZ Table 2d 11b | Y | ~~5/3/13~~ | Inspect spark plugs every 1440 hours of operation or annually, whichever comes first | 40 CFR 63.6655(e) | P/E | Records |
| Maintenance Events | 40 CFR Part 63, Subpart ZZZZ Table 2d 11c | Y | ~~5/3/13~~ | Inspect all hoses and belts every 1440 hours of operation or annually, whichever comes first and replace as necessary | 40 CFR 63.6655(e) | P/E | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII-B
## Applicable Limits and Compliance Monitoring Requirements
## S38 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 | N | | ≤ 70 ppmv @ 15% O2, dry | BAAQMD Condition # 20651, Part 19 | P/A | Source test |
| NOx | BAAQMD 9-8-302.1 | N | | < 70 ppmv @ 15% O2, dry | BAAQMD 9-8-503 | P/Q | Portable monitor |
| NOx | SIP 9-8-302.1 | Y | | ≤ 140 ppmv @ 15% O2, dry | BAAQMD Condition # 20651, Part 19 | P/A | Source test |
| NOx | BAAQMD Condition # 20651, Part 6 | Y | | ≤ 1.25 grams per bhp-hr | BAAQMD Condition # 20651, Part 19 | P/A | Source test |
| CO | BAAQMD 9-8-302.3 and SIP 9-8-302.3 | Y | | ≤ 2000 ppmv @ 15% O2, dry | BAAQMD Condition # 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 9-8-503 | | |
| CO | BAAQMD Condition # 20651, Part 8 | Y | | ≤ 3.0 grams per bhp-hr | BAAQMD Condition # 20651, Part 19 | P/A | Source test |
| SO2 | BAAQMD 9-1-301 | Y | | GLC of: ≤ 0.5 ppm for 3 min, ≤ 0.25 ppm for 60 min, and ≤ 0.05 ppm for 24 hours | None | N | |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII-B
## Applicable Limits and Compliance Monitoring Requirements
## S38 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 |
|---|---|---|---|---|---|---|---|
| SO2 | BAAQMD 9-1-302 | Y | | ≤ 300 ppm (dry) | None | N | |
| Liquid Fuel Sulfur Content | BAAQMD 9-1-304 | Y | | Sulfur content of liquid fuel < 0.5% by weight | None | N | N |
| POC | BAAQMD Condition # 20651, Part 7 | Y | | ≤ 0.6 grams per bhp-hr | BAAQMD Condition # 20651, Part 19 | P/A | Source test |
| Total Carbon | BAAQMD 8-2-301 and SIP 8-2-301 | Y | | ≤ 15 pounds/day or ≤ 300 ppm total carbon concentration | N | N | N |
| Opacity | BAAQMD 6-1-~~303~~301 and SIP 6-~~303~~301 | Y | | > Ringelmann ~~2~~1.0 for no more than 3 min in any hour | N | N | N |
| | SIP 6-310.3 | y | | < 0.15 grains per dscf at 6% O2, dry | N | N | N |
| ~~FP~~TSP | BAAQMD 6-1-310.1 & 6-1-310.3 ~~BAAQMD 6-1-310~~ | N~~Y~~ | | < 0.15 grains per dscf at 6% O2, dry~~< 0.15 grains per dscf~~ | N | N | N |
| PM | BAAQMD Condition # 20651, Part 9 | Y | | ≤ 0.085 grams per bhp-hr | BAAQMD Condition # 20651, Part 19 | P/A | Source test |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII-B
## Applicable Limits and Compliance Monitoring Requirements
## S38 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 |
|---|---|---|---|---|---|---|---|
| Fuel Input, Combined to S37, 38, 39 | BAAQMD Condition # 20651, Part 15 | Y | | ≤ 150,000 gallons in any rolling 365 day period | BAAQMD Condition # 20651, Part 18 | P/D | Records |
| Thermal Throughput | BAAQMD Condition # 20651, Part 13 | Y | | ≤ 25 E6 BTU/hour per engine | BAAQMD Condition # 20651, Part 18 | P/D | Records |
| Hours of Operation, S37, 38, 39 Combined | BAAQMD Condition # 20651, Part 14 | Y | | ≤ 25,316 hours in any rolling 365 day period | BAAQMD Condition # 20651, Part 18 | P/D | Records |
| Idle Time | 40 CFR 63.6625(h) | Y | 5/3/13 | < 30 minutes for start-up | None | N | N/A |
| Fuel Usage | 40 CFR 63.6655(c) | Y | 5/3/13 | record of daily fuel usage monitors | 40 CFR 63.6655(c) | D | Records |
| Maintenance Events | 40 CFR Part 63, Subpart ZZZZ Table 2d 11a | 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 |
| Maintenance Events | 40 CFR Part 63, Subpart ZZZZ Table 2d 11a | Y | 5/3/13 | Inspect spark plugs every 1440 hours of operation or annually, whichever comes first | 40 CFR 63.6655(e) | P/E | Records |
| Maintenance Events | 40 CFR Part 63, Subpart ZZZZ Table 2d 11a | Y | 5/3/13 | Inspect all hoses and belts every 1440 hours of operation or annually, whichever comes first and replace as necessary | 40 CFR 63.6655(e) | P/E | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-C**
**Applicable Limits and Compliance Monitoring Requirements**
**S43 Wet Weather Primary Sludge Thickeners (2)**
**S45 Aerated Grit Tanks (8)**
**S47 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 |
|---|---|---|---|---|---|---|---|
| Total Carbon | BAAQMD 8-2-301 and SIP 8-2-301 | Y | | $\leq$ 15 pounds/day or $\leq$ 300 ppm total carbon concentration | None | N | |
| | BAAQMD Condition # 2409 | N | | $\geq$ 5 odor complaints within 1 month | BAAQMD Condition # 2409 | P/D | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII-D
## Applicable Limits and Compliance Monitoring Requirements
## S48, 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 |
|---|---|---|---|---|---|---|---|
| Organic Compounds | BAAQMD 8-7-301.10 | Y | | Equipment certified to recover 98% of gasoline vapors during tank filling | None | N | |
| Organic Compounds | BAAQMD 8-7-301.2 | Y | | All Phase I Systems Shall Meet the Emission Limitations of the Applicable CARB Certification | ~~CARB EO G-70-161~~, CARB EO VR-402-D CARB EO VR-301-F~~D~~ | P/E | CARB Certification Procedures |
| Organic Compounds | BAAQMD 8-7-301.5 | Y | | Maintain Phase I Equipment in compliance with CARB Executive Order | ~~CARB EO G-70-161~~, CARB EO VR-402-D CARB EO VR 301-~~D~~F | P/E | CARB Certification Procedures |
| Organic Compounds | BAAQMD 8-7-301.6 | Y | | All Phase I Equipment (except components with allowable leak rates) shall be leak free (≤3 drops/minute) and vapor tight | ~~CARB EO G-70-161, paragraph 19,~~ CARB EO VR-402-D, paragraph 15 and BAAQMD 8-7-301.13 and 8-7-407 and BAAQMD Condition # 25107, and 40 CFR 63.11120 | P/A | Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII-D
## Applicable Limits and Compliance Monitoring Requirements
## S48, 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 |
|---|---|---|---|---|---|---|---|
| Organic Compounds | BAAQMD 8-7-302.2 | Y | | All Phase II equipment shall be maintained per CARB certifications and manufa~~c~~'tu~~r~~'er's specifications | ~~CARB EO G-70-17AD paragraph 4~~ | P/A | |
| Organic Compounds | 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 |
| Organic Compounds | 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-Annul Inspection |
| Defective Component Repair/ Replace-ment Time Limit | BAAQMD 8-7-302.4 | Y | | Shall be repaired or replaced within 7 days | BAAQMD 8-7-503.2 | P/E | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII-D
## Applicable Limits and Compliance Monitoring Requirements
## S48, 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 |
|---|---|---|---|---|---|---|---|
| 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 |
| Back Pressure Test | BAAQMD 8-7-302.14 | Y | | Back Pressure Test Required once every 12 months | ~~CARB EO G-17AD,~~ and BAAQMD 8-7-601 | P/A | CARB Certification Procedures, BAAQMD Manual of Procedures St-27 |
| Pressure Vacuum Valve Require-ments | BAAQMD 8-7-316 and CARB EO G-70-161, ~~parargraph~~ paragraph 14, | Y | | Pressure Settings: > 2.5 inches of water column gauge | ~~CARB EO G-161 paragraph 14,~~ CARB EO VR-301-D | P/E | CARB Certification Procedures |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII-D
## Applicable Limits and Compliance Monitoring Requirements
## S48, 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 |
|---|---|---|---|---|---|---|---|
| Inspection Frequency | 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~~F, | P/E | Semi-Annual Inspection with Portable Hydro-carbon Detector |
| Inspection Frequency | 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-Annul 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 Limits and Compliance Monitoring Requirements

## Table VII-D
## Applicable Limits and Compliance Monitoring Requirements
## S48, 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 |
|---|---|---|---|---|---|---|---|
| Disconnection on 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,~~ CARB EO VR-402-D, paragraph 15 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 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 63.11117 (b)(1) | None | None |
| Gasoline Throughput | BAAQMD Condition # 21663 and 40 CFR 63.11117 (d) | Y | | Gasoline throughput shall not exceed 334,000 gallons per year | BAAQMD 8-7-503.1 | P/A | Records |
| Phase I Pressure Integrity Test | BAAQMD Condition # 25107, and 40 CFR 63.11120 | Y | | Annual static pressure ~~decay~~performance (~~ST-38~~TP 201.1B) test | BAAQMD 8-7-407 | P/A | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII- E
## Applicable Limits and Compliance Monitoring Requirements
## S50, Standby Diesel Engine, Detroit Diesel, 1043731616, 238 HP
## S51, Standby Diesel Engine ~~BUG~~, Generac 440FER8212GGW, 268 hp
## ~~S 52 Diesel Engine BUG< Generac, 280 hp~~
## S53, Standby Diesel Engine ~~BUG~~, Cummins S/N 44852080, 277 hp
## S58, Emergency Standby Diesel Generator Set, Model C13, 430 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 |
| Liquid Fuel Sulfur Content | BAAQMD 9-1-304 | Y | | < 0.5% by weight | CCR Title 13, Section 2281 (a) (2 and 5), CCR Title 17, Sections 93115.5 and 93115.10 | P/E | CARB Diesel Fuel Sulfur Content Limits, Sales Restrictions, Usage Require-ments and Records |
| Liquid Fuel Sulfur Content | 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 | .CCR Title 17, Sections 93115.5 and 93115.10(f) (1) | P/M | Vendor fuel certification, Monthly CARB Diesel Fuel Sulfur Content Limits, Sales Restrictions, Usage Require-ments, and Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII- E
## Applicable Limits and Compliance Monitoring Requirements
## S50, Standby Diesel Engine, Detroit Diesel, 1043731616, 238 HP
## S51, Standby Diesel Engine ~~BUG~~, Generac 440FER8212GGW, 268 hp
## ~~S-52 Diesel Engine BUG< Generac, 280 hp~~
## S53, Standby Diesel Engine ~~BUG~~, Cummins S/N 44852080, 277 hp
## S58, Emergency Standby Diesel Generator Set, Model C13, 430 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 and SIP 6-303 | Y | | > Ringelmann 2.0 for no more than 3 min in any hour | None | N | NA |
| FP | BAAQMD 6-1-310 and SIP 6-310 | Y | | ≤ 0.15 grains per dscf | None | N | NA |
| ~~Hours of Operation~~ | ~~BAAQMD Condition # 22820, Part 1 CCR Title 17 93115.6(b)(3)(A)(1)(a)~~ | ~~N~~ | | ~~For S-52: reliability-related activities not to exceed 20 hours in any consecutive 12-month period~~ | ~~BAAQMD Condition # 22820, Parts 3-4 CCR Title 17 93115.10(d)(1) and (f)(1)~~ | ~~C & P/M~~ | ~~Hour Meter and Records~~ |
| Hours of Operation | BAAQMD Condition # 22830, Part 1 CCR Title 17 93115.6(b)(3)(A)(1)(b) | N | | For S50 and S53: reliability-related activities not to exceed 30 hours in any consecutive 12-month period | BAAQMD Condition # 22820, Parts 3-4 CCR Title 17 93115.10(d)(1) and (f)(1) | C & P/M | Hour Meter and Records |



Renewal Date:

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII- E
## Applicable Limits and Compliance Monitoring Requirements
## S50, Standby Diesel Engine, Detroit Diesel, 1043731616, 238 HP
## S51, Standby Diesel Engine ~~BUG~~, Generac 440FER8212GGW, 268 hp
## ~~S 52 Diesel Engine BUG< Generac, 280 hp~~
## S53, Standby Diesel Engine ~~BUG~~, Cummins S/N 44852080, 277 hp
## S58, Emergency Standby Diesel Generator Set, Model C13, 430 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 # 22850, Part 1 CCR Title 17 93115.6(b)(3)(A)(2)(b) | N | | For S51 and S58: reliability-related activities not to exceed 50 hours in any consecutive 12-month period | BAAQMD Condition # 228~~20~~50, Parts 3-4 CCR Title 17 93115.10(d)(1) and (f)(1) | C & P/M | Hour Meter and Records |
| ~~Hours of Operation~~ | ~~BAAQMD 9-8-330.2~~ | ~~N~~ | | ~~Operating Hours for Reliability-Related Activities: ≤ 100 hours in a calendar year~~ | ~~BAAQMD 9-8-530 and BAAQMD Conditions # 22830 and # 22850, Parts 3-4~~ | ~~C & P/M~~ | ~~Hour Meter and Records~~ |
| Hours of Operation | BAAQMD 9-8-330.3 | N | | Operating Hours for Reliability-Related Activities: ≤ 50 hours in a calendar year | BAAQMD 9-8-530 and BAAQMD Condition # 22830 and # 22850 Parts 3-4 | C & P/M | Hour Meter and Records |
| Hours of Operation | 40 CFR 63.6640 (f)(1)(ii) | Y | ~~5/3/13~~ | Operating Hours for Maintenance Checks, Readiness Testing, and Other Non-Emergency Operation: ≤ 100 hours in a calendar year | 40 CFR 63.6625(f) and 63.6655(f)(2) | C & P/M | Hour Meter and Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII- E
## Applicable Limits and Compliance Monitoring Requirements
## S50, Standby Diesel Engine, Detroit Diesel, 1043731616, 238 HP
## S51, Standby Diesel Engine ~~BUG~~, Generac 440FER8212GGW, 268 hp
## ~~S 52 Diesel Engine BUG< Generac, 280 hp~~
## S53, Standby Diesel Engine ~~BUG~~, Cummins S/N 44852080, 277 hp
## S58, Emergency Standby Diesel Generator Set, Model C13, 430 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 | 40 CFR 63.6640 (f)(l)(iii) | Y | ~~5/3/13~~ | Operating Hours for Non-Emergency Operation: ≤ 50 hours in a calendar year | 40 CFR 63.6625(f) and 63.6655(f)(2) | C & P/M | Hour Meter and Records |
| Idle Time | 40 CFR 63.6625(h) | Y | ~~5/3/13~~ | ≤ 30 minutes for start-up | None | N | N/A |
| 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 Limits and Compliance Monitoring Requirements

## Table VII- F
## Applicable Limits and Compliance Monitoring Requirements
## S54, Standby Diesel Engine, Backup Generator ~~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 |
| Liquid Fuel Sulfur Content | BAAQMD 9-1-304 | Y | | ≤ 0.5% by weight | CCR Title 13, Section 2281 (a) (2 and 5), CCR Title 17, Sections 93115.5 and 93115.10 | P/E | CARB Diesel Fuel Sulfur content Limits, Sales Restrictions, Usage |
| Liquid Fuel Sulfur Content | 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 | CCR Title 17 Sections 93115.5 and 93115.10(f) (1) | P/E | CARB Diesel Fuel Sulfur Content Limits, Sales Restrictions, Usage Require-ments, and Vendor fuel certification, Monthly Records |
| Opacity | BAAQMD 6-1-303 and SIP 6-303 | Y | | > Ringelmann 2.0 for no more than 3 min in any hour | None | N | NA |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII- F
## Applicable Limits and Compliance Monitoring Requirements
## S54, Standby Diesel Engine, Backup Generator ~~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 |
|---|---|---|---|---|---|---|---|
| FP | ~~BAAQMD 6-1-310 and~~ SIP 6-310 | Y | | ≤ 0.15 grains per dscf | None | N | N~~A~~ |
| TSP | BAAQMD 6-1-310.1 | N | | < 0.15 grains per dscf | None | N | N |
| Hours of Operation | BAAQMD Condition # 22850, Part 1 and CCR Title 17 93115.6(b)(3)(A)(2)(b) | N | | reliability-related activities not to exceed 50 hours in any consecutive 12-month period | BAAQMD Cond.22850, parts 3-4 CCR Title 17 93115.10(d)(1) and (f) (1) | P/M | Hour Meter and Records |
| ~~Hours of Operation~~ | ~~BAAQMD 9-8-330.2~~ | ~~N~~ | | ~~Operating Hours for Reliability-Related Activities: ≤ 100 hours in a calendar year~~ | ~~BAAQMD 9-8-530 and BAAQMD Condition # 22850, Parts 3-4~~ | ~~C & P/M~~ | ~~Hour Meter and Records~~ |
| Hours of Operation | BAAQMD 9-8-330.3 | N | | Operating Hours for Reliability-Related Activities: ≤ 50 hours in a calendar year | BAAQMD 9-8-530 and BAAQMD Condition #22850 Parts 3-4 | C & P/M | Hour Meter and Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII- F
## Applicable Limits and Compliance Monitoring Requirements
## S54, Standby Diesel Engine, Backup Generator ~~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 | 40 CFR 63.6640 (f)(1)(ii) | Y | ~~5/3/13~~ | Operating Hours for Maintenance Checks, Readiness Testing, and Other Non-Emergency Operation: ≤ 100 hours in a calendar year | 40 CFR 63.6625(f) and 63.6655(f)(2) | C & P/M | Hour Meter and Records |
| Hours of Operation | 40 CFR 63.6640 (f)(l)(iii) | Y | ~~5/3/13~~ | Operating Hours for Non-Emergency Operation: ≤ 50 hours in a calendar year | 40 CFR 63.6625(f) and 63.6655(f)(2) | C & P/M | Hour Meter and Records |
| Idle Time | 40 CFR 63.6625(h) | Y | ~~5/3/13~~ | ≤ 30 minutes for start-up | None | N | NA |
| 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 Limits and Compliance Monitoring Requirements

## Table VII-G
## Applicable Limits and Compliance Monitoring Requirements
## S55 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 and~~ SIP 9-7-301.1 | Y | | ≤ 30 ppm @ 3% $O_2$, dry | ~~BAAQMD 9-7-403 and~~ SIP 9-7-403 | N | Initial source test |
| NOx | BAAQMD 9-7-307.7 | N | | ≤ 30 ppm @ 3% $O_2$, dry | BAAQMD 9-7-506 ~~None~~ | ~~n~~P/A | ~~N~~Annual source test or use of portable monitor |
| NOx | BAAQMD Condition # 20651, Part 5 | Y | | ≤ 30 ppm @ 3% $O_2$, dry | BAAQMD Condition # 20651, Part 19 | P/A | Source test |
| ~~NOx~~ | ~~BAAQMD 9-7-307.7~~ | ~~N~~ | | ~~≤ 30 ppm @ 3% $O_2$, dry~~ | ~~N~~ | ~~N~~ | ~~N~~ |
| Insulation Require-ments | BAAQMD 9-7-311 | N | | all pipes and ducts heated by device does not exceed 120 ºF | N | N | N |
| Stack Gas Tempe-rature | BAAQMD 9-7-312 | N | ~~1/1/2013~~ yy | 100 ºF over saturated steam temperature | N | N | N |
| CO | ~~BAAQMD 9-7-301.4 and~~ SIP 9-7-301.2 | Y | | ≤ 400 ppm @ 3% $O_2$, dry | ~~BAAQMD 9-7-403 and~~ SIP 9-7-403 | N | ~~Initial source test~~ |
| CO | BAAQMD 9-7-307.7 | N | | ≤ 400 ppm @ 3% $O_2$, dry | BAAQMD 9-7-506 ~~N~~ | P/A~~N~~ | Annual source test or use of portable monitor~~N~~ |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII-G
## Applicable Limits and Compliance Monitoring Requirements
## S55 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 |
|---|---|---|---|---|---|---|---|
| CO | BAAQMD Condition # 20651, Part 5 | Y | | ≤ 50 ppm @ 3% $O_2$, dry | BAAQMD Condition # 20651, Part 19 | P/A | Source test |
| SO2 | 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 | N |
| SO2 | BAAQMD 9-1-302 | Y | | ≤ 300 ppm (dry) | BAAQMD Condition # 18860, Part 4 | P/W | Fuel Sulfur Content |
| Opacity | BAAQMD 6-1-301 and SIP 6-301 | Y | | > Ringelmann 1.0 for no more than 3 min in any hour | N | N | N |
| FP | ~~BAAQMD 6-1-310~~ and SIP 6-310 | Y | | ≤ 0.15 grains per dscf at 6% Oxygen | N | N | N |
| TSP | BAAQMD 6-1-310.1 | N | | < 0.15 grains per dscf at 6% Oxygen | N | N | N |
| Organic Com-pounds | BAAQMD 8-2-301 and SIP 8-2-301 | Y | | ≤ 15 pounds/day or ≤ 300 ppm total carbon concentration | N | N | N |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII-G
## Applicable Limits and Compliance Monitoring Requirements
## S55 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 |
|---|---|---|---|---|---|---|---|
| Heat Input Rate | BAAQMD Condition # 20651, Part 3b | N | | ≤ 20.41 E6 BTU per hour | BAAQMD Condition # 20651, Part 18 | P/D | Records |

## Table VII- H
## Applicable Limits and Compliance Monitoring Requirements
## S56: Digester Gas Turbine #1

| 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 and SIP 9-9-301.1 | Y | | ≤ 42 ppmv @ 15% $O_2$, dry | BAAQMD 9-9-504 | P/A | Source test |
| NOx | BAAQMD 9-9-301.2 | N | | ≤ 2.53 pounds per MW-hour or ≤ 50 ppmv @ 15% $O_2$, dry | BAAQMD 9-9-504 | P/A | Source test |
| NOx | NSPS Subpart KKKK, 60.4320(a) and Table 1 | Y | | 96 ppm at 15 percent O2 or 700 ng/J of useful output (5.5 lb/MWh). | NSPS Subpart KKKK, 60.4340(a) | P/A | Source test |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII- H
## Applicable Limits and Compliance Monitoring Requirements
## S56: Digester Gas Turbine #1

| 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 Condition # 24050, Part 3 | Y | | ≤ 23 ppmv @ 15% $O_2$, dry and 34,400 pounds/year ~~per turbine~~ (excluding startup, shutdown, and commissioning) | BAAQMD Condition # 24050, Part 7 | P/A | Source test |
| CO | BAAQMD Condition # 24050, Part 4 | Y | | ≤ 100 ppmv @ 15% $O_2$, dry and ≤ 92,200 pounds/year ~~per turbine~~ (excluding startup, shutdown, and commissioning) | BAAQMD Condition # 24050, Part 7 | P/A | Source test |
| SO2 | 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 | N |
| SO2 | BAAQMD 9-1-302 | Y | | ≤ 300 ppm (dry) | BAAQMD Condition # 18860, Part 4 | P/W | Fuel Sulfur Content |
| ~~Liquid Fuel Sulfur Content~~ | ~~BAAQMD 9-1-304~~ | ~~Y~~ | | ~~≤ 0.5% S by weight~~ | ~~CCR Title 13, Section 2281 (a) (2 and 5)~~ | ~~P/E~~ | ~~CARB Diesel Fuel Sulfur Content Limits, Sales Restrictions, Usage~~ |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII- H
## Applicable Limits and Compliance Monitoring Requirements
## S56: Digester Gas Turbine #1

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| SO2 | BAAQMD Condition # 24050, Part 5 | Y | | 150 ppmv @ 15% $O_2$, dry | BAAQMD Condition # 24050, Part 7 | P/A | Source test |
| ~~SO2~~ | ~~40 CFR, Subpart GG, 60.333(a)~~ | ~~Y~~ | | ~~≤ 0.015% @ 15% $O_2$, dry~~ | ~~40 CFR, Subpart GG, 60.334(h) and BAAQMD Condition # 18860, Part 412~~ | ~~P/W~~ | ~~Fuel Sulfur Content~~ |
| SO2 | 40 CFR, Subpart KKKK, 60.4333(a)(3) | Y | | 0.15 lb SO2/MMbtu | 40 CFR, Subpart KKKK, 60.4360 and 60.4370(b) | P/D | Fuel Sulfur Content |
| Opacity | BAAQMD 6-1-301 and SIP 6-301 | Y | | > Ringelmann 1.0 for no more than 3 min in any hour | N | N | N |
| FP | ~~BAAQMD 6-1-310 and~~ SIP 6-310 | Y | | 0.15 grains per dscf at 6% Oxygen | N | N | N |
| TSP | BAAQMD 6-1-310.1 and 6-310.3 | N | | 0.15 grains per dscf at 6% Oxygen | N | N | N |
| Total Carbon | BAAQMD 8-2-301 | Y | | ≤ 15 pounds/day or ≤ 300 ppm total carbon concentration | N | N | N |



Renewal Date:

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII- H
## Applicable Limits and Compliance Monitoring Requirements
## S56: Digester Gas Turbine #1

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Fuel Usage | BAAQMD Condition # 24050, Part 2 | Y | | ≤ 389,820 ~~E6~~ MMBTU per year | BAAQMD Condition # 24050, Parts 7 and 9 | P/A, W | Digester gas flow rate, BTU content |

## Table VII-I
## Applicable Limits and Compliance Monitoring Requirements
## S100, 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 | | During Dry Weather Periods: ≤ 120 million gallons per day (monthly average) and During Wet Weather Periods: ≤ 325 million gallons per day (monthly average) | BAAQMD Condition # 21759, Part 3 | P/D | Records |
| Total Carbon | BAAQMD 8-2-301 and SIP 8-2-301 | Y | | ≤ 15 pounds/day of total carbon or ≤ 300 ppm of total carbon concentration | N | N | N |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII-J
## Applicable Limits and Compliance Monitoring Requirements
## S110 Headworks; IPS; Barscreens
## S120 Primary Treatment; 16 Sedimentation Tanks
## S130 Secondary Treatment; 8 HPO Activated Sludge Units C/V
## S140 Secondary Clarifiers; 12 Clarifiers
## S160 Disinfection, Chlorination Contact Tanks, Non-ducted
## S170 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 |
|---|---|---|---|---|---|---|---|
| Total Carbon | BAAQMD 8-2-301 and SIP 8-2-301 | Y | | ≤ 15 pounds/day of total carbon or ≤ 300 ppm of total carbon concentration | N | N | N |

## Table VII-K
## Applicable Limits and Compliance Monitoring Requirements
## S172, Sludge Handling Processes; Pre-Digestion Blend Tanks

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Throughput Limit | BAAQMD Condition #25919, Part 1 | N | | <2,100,000 gallons in any day | | | |
| POC and Total Carbon | BAAQMD Condition #25919, Part 4 | N | | <20.3 ppm of total carbon concentration and <2.02 pounds/day of POC | BAAQMD Condition # 25919, Part 6 | P/Q | PID or TO-15 |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII-~~K~~L
## Applicable Limits and Compliance Monitoring Requirements
## S180 Anaerobic Digesters (11); ~~3~~2 float, ~~7~~8 fixed, ~~10 Floating Cover ,~~ 1 Dystor; A190 through A195, Flares

| 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 Condition # 18860, Part 9 | Y | | 0.06 lb per MMbtu calculated as NO2 at A194 and A195, flares | BAAQMD Condition # 18860, Part 7 | P/every 8760 hours or every 5 years, whichever comes first | Source test |
| CO | BAAQMD Condition # 18860, Part 10 | Y | | 0.2 lb per MMbtu at A194 and A195, flares | BAAQMD Condition # 18860, Part 7 | P/every 8760 hours or every 5 years, whichever comes first | Source test |
| Total Carbon | BAAQMD 8-2-301 and SIP 8-2-301 | Y | | ≤ 15 pounds/day of total carbon or ≤ 300 ppm of total carbon concentration | None | N | N |
| H2S | BAAQMD 9-2-301 | N~~Y~~ | | Property Line Ground Level Limits: ≤ 0.06 ppmv during any 24 hour period and ≤ 0.03 ppmv during any 60 minute period | None | N | N |
| | BAAQMD Condition # 18860, Part 10 | N | | < 0.032 lb/hr from A194 and A195, flares, combined | BAAQMD Condition # 18860, Part 7 | P/every 8760 hours or every 5 years, whichever comes first | Source test |
| Total Sulfur | BAAQMD Condition # 18860, Part 3 | N | | ≤ ~~340~~200 ppmv in digester gas on an annual basis | BAAQMD Condition # 18860, Part 4~~1~~2 | P/W | Fuel Sulfur Content |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII-~~K~~L
## Applicable Limits and Compliance Monitoring Requirements
## S180 Anaerobic Digesters (11); ~~3~~2 float, ~~7~~8 fixed, ~~10 Floating Cover ,~~ 1 Dystor; A190 through A195, Flares

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Digester Gas Produc-tion | BAAQMD Condition # 18860, Part 4 | Y | | 3,400 scfm on an annual average basis | BAAQMD Condition # 18860, Part 4 | P/D, M, A | Records |
| Tempe-rature | BAAQMD Condition # 18860, Part 5 | Y | | 1,500 degrees F, 3 hour average at A194 and A195, Flares | | | |
| Residence time | BAAQMD Condition # 18860, Part 5 | Y | | 0.6 seconds at A194 and A195, Flares | | N | |
| Flow to flares | BAAQMD Condition # 18860, Part 6 | Y | | 3,000 cfm over 1 hour to A194 and A195 | BAAQMD Condition # 18860, Part 8 | P/E | Records |
| Flow to flares | BAAQMD Condition # 18860, Part 6 | Y | | 3,000 cfm over 1 hour to A194 and A195 | BAAQMD Condition # 18860, Part 7 | P/3very 8,760 hr or every 5 years | Source test |
| None | None | N | | None | BAAQMD Condition # 18860, Part 2 | P/M | Digester Tank Visual Inspection |
| Opacity | BAAQMD 6-1-301 and SIP 6-301 | Y | | Applies to flares only > Ringelmann 1.0 for no more than 3 min in any hour | N | N | N |
| TSP | BAAQMD 6-1-310.1 | N | | Applies to flares only < 0.15 grains per dscf | N | N | N |
| FP | SIP 6-310 | Y | | Applies to flares only < 0.15 grains per dscf | N | N | N |

# VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally found in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits included in Section VII, Applicable 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<br>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 |
| BAAQMD 9-1-304 | Liquid Fuel Sulfur Content | Manual of Procedures, Volume III, Method 10A, Determination of Sulfur in 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 |
| 40 CFR, 60.333(a,b) | Fuel Sulfur Limit (gaseous fuel) 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 |
| 40 CFR 60.4333(a)(3) | SO2 limit | ASTM D1072, Standard Method for Total Sulfur in Fuel Gases; If emissions are less than 0.075 lb SO2/MMbtu: ASTM D4084, D4810, D5504, or D6228, or Gas Processors Association Standard 2377 |
| BAAQMD Condition # 18860, Part 3 | Digester Gas Total Sulfur | Manual of Procedures, Volume III, Method 44 or ASTM Method D5504 |

# VIII. Test Methods

## Table VIII
## Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|---|---|---|
| BAAQMD Condition # 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 Condition # 20651 Part 6 and Part 10 | NOx Limits | Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling |
| BAAQMD Condition # 20651 Part 8 and Part 11 | CO Limits | Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling |
| ~~BAAQMD Condition # 20651 Part 10~~ | ~~NOx Limits~~ | ~~BAAQMD MOP Volume IV, ST-13A Oxides of Nitrogen, Continuous Sampling, and ST-14, Oxygen, Continuous Sampling~~ |
| ~~BAAQMD Condition # 20651 Part 11~~ | ~~CO Limits~~ | ~~Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling~~ |
| BAAQMD Condition # 24050 Part 3 | NOx Limits | Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling |
| BAAQMD Condition # 24050 Part 4 | CO Limits | Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling |
| BAAQMD Condition # 24050 Part 5 | SO2 Limits | ASTM D 1072-80, Standard Method for Total Sulfur in Fuel Gases<br>ASTM D 3031-81, Standard Test Method for Total Sulfur in Natural Gas by Hydrogenation |

# VIII. Test Methods

## Table VIII
## Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|---|---|---|
| ~~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 Methods 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~~F | 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) |
| 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).<br>(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).<br>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, *see* §63.14). |

# VIII. Test Methods

## Table VIII
## Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|---|---|---|
| 40 CFR Part 63 Subpart ZZZZ Table 4 | 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 JJJJJJ of this part. |
| 40 CFR Part 60.333(a) | SO2 Volumetric Emission Limit | EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines |
| 40 CFR Part 60.8 | 40 CFR Part 60 Appendix A | EPA Method 7,-Determination of Nitrogen Oxide Emissions from Stationary Sources<br>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 (Application # 1209, 1068, 27693)** **November 9, 2000**

**Minor Modification (Application # 10353, 10237):** **July 14, 2004**

- Removal of underground tank,
- Installation of aboveground tank

**Renewal (Application # 3926):** **July 26, 2005**

**Minor Revision (Application # 18480):** **December 28, 2010**

**Permit Renewal (Application # 21441)** **December 19, 2012**

- ~~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 II-C, Exempt Equipment, and placed source 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.~~

## X. Revision History

- 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 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.

## X. Revision History

- ~~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 Condition #22850 as the District desires to retain consistency in conditions 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 25 MM 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.~~

**Permit Renewal (Application # 28689)** ~~**December 19, 2017**~~ **2019**

## 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

# XI. Glossary

**API**
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

**C5**
An organic chemical compound with five carbon atoms, for example: pentane

# XI. Glossary

**C6**
An organic chemical compound with six carbon atoms, for example: hexane

**$C_6H_6$**
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. NOx concentration) in an exhaust stream. **CEQA**
California Environmental Quality Act

**CFR**
The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

**CH4 or $CH_4$**
Methane

# XI. Glossary

**CI**
Compression Ignition

**CIWMB**
California Integrated Waste Management Board

**CO**
Carbon Monoxide

**CO2 or $CO_2$**
Carbon Dioxide**CO2e**
Carbon Dioxide Equivalent. A carbon dioxide equivalent emission rate is the emission rate of a greenhouse gas compound that has been adjusted by multiplying the mass emission rate by the global warming potential of the greenhouse gas compound. These adjusted emission rates for individual compounds are typically summed together, and the total is also referred to as the carbon dioxide equivalent (CO2e) emission rate.

**CT**
Combustion Zone Temperature

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

**District**
The Bay Area Air Quality Management District

**E6, E9, E12**
Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example, 4.53E6 equals (4.53) x (106) = (4.53) x (10x10x10x10x10x10) = 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.

# XI. Glossary

**H2S or $H_2S$**
Hydrogen Sulfide

**H2SO4 or $H_2SO_4$**
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 $60^oF$.

**Long ton**
2200 pounds

**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

# XI. Glossary

**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 $N_2$**
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

**NMOC**
Non-methane Organic Compounds (Same as NMHC)

**NO2**
Nitrogen Dioxide

**NOx**
Oxides of nitrogen.

# XI. Glossary

**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 $O_2$**
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, NOx, 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

**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.

# XI. Glossary

**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.

**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 $SO_2$**
Sulfur dioxide

**SO3 or $SO_3$**
Sulfur trioxide

**SSM**
Startup, Shutdown, or Malfunction

# XI. Glossary

**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

**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

# XI. Glossary

**Symbols:**

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

**Units of Measure:**

| | | |
|---|---|---|
| atm | = | atmospheres |
| bbl | = | barrel of liquid (42 gallons) |
| bhp | = | brake-horsepower |
| Btu | = | British Thermal Unit |
| °C | = | degrees Centigrade |
| cfm | = | cubic feet per minute |
| dscf | = | dry standard cubic feet |
| °F | = | degrees Fahrenheit |
| $ft^3$ | = | cubic feet |
| g | = | grams |
| gal | = | gallon |
| gpm | = | gallons per minute |
| gr | = | grains |
| hp | = | horsepower |
| hr | = | hour |
| in | = | inches |
| kW | = | kilowatt |
| lb | = | pound |
| in | = | inches |
| lbmole | = | pound-mole |
| max | = | maximum |
| $m^2$ | = | square meter |
| $m^3$ | = | cubic meters |
| min | = | minute |
| MM | = | million |
| MM BTU | = | million BTUl |
| MMcf | = | million cubic feet |
| Mg | = | mega grams |
| M scf | = | one thousand standard cubic feet |
| MW | = | megawatts |
| ppb | = | parts per billion |
| ppbv | = | parts per billion, by volume |
| ppmv | = | parts per million, by volume |
| ppmw | = | parts per million, by weight |
| psia | = | pounds per square inch, absolute |
| psig | = | pounds per square inch, gauge |
| scfm | = | standard dry cubic feet |
| scfm | = | standard cubic feet per minute |
| yd | = | yard |
| $yd^3$ | = | cubic yards |
| yr | = | year |