Bay Area Air Quality Management District

375 Beale Street, Suite 600
San Francisco, CA 94105
(415) 771-6000

Final

MAJOR FACILITY REVIEW PERMIT

Issued To:

East Bay Municipal Utility District
Facility #A0591

Facility Address:
2020 Wake Avenue
Oakland, CA 94607

Mailing Address:
PO Box 24055 MS #704
Oakland, CA 94607

Responsible Official	**Facility Contact**
Eileen M. White, P.E.	Maura Bonnarens
(510) 287-1149	(510) 287-1023

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

BAAQMD Engineering Division Contact: Simrun Dhoot

Primary SIC: 4952
Product: Treated Municipal Wastewater

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Damian Breen for Jack P. Broadbent — November 7, 2019

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 12/6/17);
SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 8/1/16);
BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 12/6/17);
SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through 8/1/16);
BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 12/6/17),
SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 12/4/17),
BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants
(as amended by the District Board on 12/7/16)
BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 12/6/17).
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 November 7, 2019, and expires on November 6, 2024. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than May 7, 2024, and no earlier than November 6, 2023. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after** November 6, 2024**.** If the permit renewal has not been issued by November 6, 2024, 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
375 Beale Street, Suite 600
San Francisco, CA 94105
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 certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification shall be sent by e-mail to r9.aeo@epa.gov or postal mail to the Environmental Protection Agency at the following address:

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 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

I. Standard Conditions

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; two gasoline dispensing nozzles
S50	Diesel Engine Backup Generator	Detroit Diesel	10437316	238 HP
S51	Diesel Engine Backup Generator	Generac	440FER8212 GGW	268 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
S55	Hot Water Boiler, Digester Gas Fired	Cleaver-Brooks	W28-HHW-BLR-001	20.41 MM BTU/hour

II. Equipment List

Table II – A
Permitted Sources

S-#	Description	Make or Type	Model	Capacity
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	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), 2 Floating, 8 Fixed, 1 Dystor	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 lb NOx/MMBtu, ≤ 0.2 lb CO/MMBtu, and ≤ 0.032 lb 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 lb NOx/MMBtu, ≤ 0.2 lb CO/MMBtu, and ≤ 0.032 lb 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
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 is posted on the EPA Region 9 website. The address is:

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

III. General Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
SIP Regulation 4, Table 1	Air Pollution Episode Plan, Episode Stage Criteria (8/6/90)	Y
BAAQMD Regulation 5	Open Burning (6/19/13)	N
SIP Regulation 5	Opening Burning (9/4/98)	Y
BAAQMD Regulation 6, Rule 1	Particulate Matter – General Requirements (8/1/18)	N
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds – General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (7/20/05)	N
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (3/22/95)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds – Architectural Coatings (7/1/09)	N
SIP Regulation 8, Rule 3	Organic Compounds – Architectural Coatings (1/2/04)	Y
BAAQMD Regulation 8, Rule 4	Organic Compounds – General Solvent and Surface Coating Operations (10/16/02)	Y
BAAQMD Regulation 8 Rule 15	Organic Compounds – Emulsified and Liquid Asphalts (6/1/94)	Y
BAAQMD Regulation 8, Rule 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
SIP Regulation 8, Rule 40	Organic Compounds - Aeration of Contaminated Soil and Removal of Underground Storage Tanks (4/19/01)	Y
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
BAAQMD Regulation 8, Rule 51	Organic Compounds – Adhesive and Sealant Products (7/17/02)	N

III. General Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/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 11, Rule 18	Reduction of Risk from Air Toxic Emissions at Existing Facilities (11/15/17)	N
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance – Sandblasting (7/11/90)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance – Sandblasting (9/2/81)	Y
BAAQMD Regulation 14, Rule 1	Mobile Source Emission Reduction Methods – Bay Area Commuter Benefits Program (3/19/14)	N
California Health and Safety Code Section 41750 et seq.	Portable Equipment	N
California Health and Safety Code Section 44300 et seq.	Air Toxics “Hot Spots” Information and Assessment Act of 1987	N
California Health and Safety Code Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines	N
California Health and Safety Code Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater	N
40 CFR Part 61, Subpart 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 (7/20/04)	Y
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (12/1/2016)	Y
Subpart F, 40 CFR 82.156	Recycling and Emissions Reductions – Required Practices	Y
Subpart F, 40 CFR 82.161	Recycling and Emissions Reductions – Technician Certification	Y
Subpart F, 40 CFR 82.166	Recycling and Emissions Reductions – Reporting and Recordkeeping Requirements	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s).

The dates in parentheses in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date.

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is on EPA Region 9's website. The address is:

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 (8/1/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	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	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	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
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	
40 CFR Part 63, Subpart A	**National Emission Standards for Hazardous Air Pollutants – General Provisions (9/13/10)**		

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
63.4	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	
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	
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	

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(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			
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	
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	

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 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 (8/1/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	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)**		
6-301	Ringelmann No. 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	
9-8-503	Quarterly Demonstration of Compliance	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
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	
40 CFR Part 63 Subpart ZZZZ	**National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (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	
63.6595	When do I have to comply with this subpart?	Y	
63.6595(a)(1)	Compliance Date for affected sources	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
63.6603	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			
Part 1	Emissions shall be abated at all times. (Basis: Regulations 1-301, 8-2-301)	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
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 Operations (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 maintenance	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 VR-301-D	**Standing Loss Control Vapor Recovery System for Existing Installations of Aboveground Storage Tanks**		
Paragraph 6	Standing loss Vapor Recovery System is not to exceed 2.26 pounds of hydrocarbon per 1000 gallons of ullage per day when installed, operated and maintained as specified	N	
Paragraph 14	Standing Loss Requirements valid through May 1, 2013	N	

IV. Source-Specific Applicable Requirements

Table IV-E
Source Specific Applicable Requirements
S50, Diesel Engine BUG, Detroit Diesel 1043731616, 238 hp
S51, Diesel Engine BUG, Generac 440FER8212GGW, 268 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 (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	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)**		
9-8-110.5	Exemption, Emergency Standby Engines	N	
9-8-330	Hours of Operation, Emergency Standby Engines	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
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
9-8-330.1	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	Y	
60.4204(b)	Emissions standards	Y	
60.4207(a)	Limits sulfur content of diesel	Y	
60.4209	Monitoring, record keeping, and reporting requirements	Y	
60.4211(a)	Operation in compliance with manufacturers specifications	Y	
60.4211(c)	Compliance with CARB-certified emissions	Y	
60.4211(f)	Hours of operation	Y	
60.4214(c)	Notification, reports, and records	Y	
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	

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
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
63.5	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 (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	Y	
63.6590(c)(1)	Stationary RICE subject to Regulations under 40 CFR 60 for new RICE in area source	Y	
63.6595	When do I have to comply with this subpart?	Y	
63.6595(a)(1)	Compliance Date for affected sources	Y	
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	

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
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
63.6603(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	
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	
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	

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
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(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)(1)	General Requirements	N	
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	

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
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)(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 fueled CI engines >50 HP to operate no more than 50 hours per year for maintenance and testing if diesel PM emission rate is less than or equal to 0.15 g/bhp-hr (applies to 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	
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)**		

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
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 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 (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	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)**		
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	

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
9-8-331.1	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 (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	

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
63.6590	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	
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	
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	
63.6645(a)(5)	Notification requirements do not apply to this source	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
63.6655	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	
93115.10(d)(1)	Non-resettable totalizing hour meter	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(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 (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	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)**		
9-7-307	Final Emissions Limits	N	
9-7-307.7	Emissions Limits – Digester Gas	N	
9-7-308	Compliance Schedule	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
9-7-308.3	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	
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)**		
9-7-301	Emissions Limits – Gaseous Fuels	Y	
9-7-301.1	NOx Emissions Limit	Y	
9-7-301.2	CO Emissions Limit	Y	
9-7-503	Records	Y	
9-7-503.4	Results of source testing	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	

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
Part 19	Annual Source Test, NOx and CO (Regulation 2-6-409.2)	Y	

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 (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	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	

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
9-1-304	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	
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	

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
60.4	Address	Y	
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other Correspondence to the Administrator	Y	
60.7	Notification and record keeping		
60.7(a)(4)	Written notification of physical or operational changes	Y	
60.7(b)	Records	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.11(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Minimizing emissions	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General notification and reporting requirements	Y	
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	
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	

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
60.4365	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 KKKK, Section 60.5333(a)(3))	Y	
Part 6	Fuel Metering (Cumulative Increase)	Y	
Part 7	Source Test Requirements (BACT, Cumulative Increase, Regulation 9-9-301.1)	Y	
Part8	Periodic Flue Gas Testing (Cumulative Increase)	Y	
Part 9	Digester Gas BTU Content – Sampling (Cumulative Increase)	Y	
Part 10	Recordkeeping (Regulations 1-441 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	

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	

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 4	Emission Limits (Offsets)	Y	
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	

Table IV-N
Source Specific Applicable Requirements
S180 Anaerobic Digesters; 11: 2 floating, 8 fixed, 1 Dystor; 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 Limit	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)**		

IV. Source-Specific Applicable Requirements

Table IV-N
Source Specific Applicable Requirements
S180 Anaerobic Digesters; 11: 2 floating, 8 fixed, 1 Dystor; A190 through A195, Flares

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 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	
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 12	Weekly Sulfur Content Monitoring (Regulation 1-441)	N	
Part 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	25107, 21663	25107, 21663
50	22830	22830
51	22850	22850
53	22830	22830
54	22850	22850
55	18860, 20651	18860, 20651
56	18860, 24050	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

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: S37, S38, S39, S55 and S56, 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, 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. Manual draining of condensate from digester gas piping.
   c. Removing a digester or digester gas component from service.
   d. Collecting digester sludge samples through thief holes on digester covers.
   e. Digester gas diffusion through the Dystor membrane.

   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. (Basis: Cumulative Increase and Regulations 1-301 and 2-5-302)

3. Digester gas total sulfur content shall not exceed 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 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)

VI. Permit Conditions

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, 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.
    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)

VI. Permit Conditions

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

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 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 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)

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)

VI. Permit Conditions

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)

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)

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)

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.

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

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)

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)

16. Deleted 7-2008 (AN 17749)

17. Deleted 10-2006

VI. Permit Conditions

18. To determine compliance with the above conditions, the Permit Holder shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including the following information:

    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.

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)

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 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 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)

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

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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))

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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)

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-

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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))

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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 S180 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. 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. 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 0.15 lb/MMbtu. The owner or operator shall demonstrate compliance with this part on a daily basis in accordance with the requirements of 40 CFR 60.4360 and 60.4370 . or any alternative monitoring approved by US EPA. (Basis: 40 CFR Part 60 Subpart KKKK, Sections 60.4330(a)(3) 60.4360, and 60.4370)

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

7. To demonstrate compliance with parts 3, 4, and 5, above, the owner or operator shall annually thereafter perform a District-approved compliance source test as specified in 40 CFR 60.4400, 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 (dry basis).
   b. Digester gas concentrations (dry basis) of carbon dioxide (CO2), methane,

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total non-methane organic compounds (NMOC).

c. Exhaust gas flow rate (dry basis).

d. Exhaust gas concentrations (dry basis) of NOx, CO, NMOC, and O2 in the stack gas.

The source test report shall provide the emissions results for 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, 40 CFR 60.4340(a) and 4400)

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 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)

   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)

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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 CONTROL (SLC) FOR EXISTING TANKS NOT CERTIFIED FOR SLC

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.

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

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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)

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 lb/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

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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		$\leq$ 70 ppmv @ 15% O2, dry	BAAQMD Condition # 20651, Part 19	P/A	Source test
NOx	BAAQMD 9-8-302.1	N		$\leq$ 70 ppmv @ 15% O2, dry	BAAQMD 9-8-503	P/Q	Portable monitor
NOx	SIP 9-8-302.1	Y		$\leq$ 140 ppmv @ 15% O2, dry	BAAQMD Condition # 20651, Part 19	P/A	Source test
NOx	BAAQMD Condition # 20651; Part 10	N		$\leq$ 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 12	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 6-1-301 and SIP 6-301	Y		> Ringelmann 1.0 for no more than 3 min in any hour	N	N	N
FP	SIP 6-310	Y		≤ 0.15 grains per dscf	N	N	N

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
	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		< 30 minutes for start-up	None	N	N/A
Fuel Usage	40 CFR 63.6655(c)	Y		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		Change Oil and Filter 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-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 11b	Y		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		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	

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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 6-1-301 and SIP 6-301	Y		> Ringelmann 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
TSP	BAAQMD 6-1-310.1 & 6-1-310.3	N		≤ 0.15 grains per dscf at 6% O2, dry	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
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

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
Thermal Throughput	BAAQMD Condition # 20651, Part 13	Y		$\leq$ 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		$\leq$ 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 VR-402-D CARB EO VR-301-F	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 VR-402-D CARB EO VR 301-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 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
Organic Compounds	BAAQMD 8-7-302.2	Y		All Phase II equipment shall be maintained per CARB certifications and manufacturer's specifications		P/A	

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 8-7-302.5	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	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
Liquid Removal Rate	BAAQMD 8-7-302.8	Y		≥ 5 ml per gallon dispensed, when dispensing rate > 5 gallons/minute		P/E	CARB Certification Procedures
Liquid Retain from Nozzles	BAAQMD 8-7-302.12	Y		≤ 100 ml per 1000 gallons dispensed		P/E	CARB Certification Procedures
Nozzle Spitting	BAAQMD 8-7-302.13	Y		≤ 1.0 ml per nozzle per test		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
Back Pressure Test	BAAQMD 8-7-302.14	Y		Back Pressure Test Required once every 12 months	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, paragraph 14,	Y		Pressure Settings: > 2.5 inches of water column gauge	CARB EO VR-301-D	P/E	CARB Certification Procedures
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 VR-301-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		N		< 10 gallons per minute		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 Liquid Leaks	CARB EO G-70-160, paragraph 12			≤ 10 ml per disconnect, averaged over 3 disconnect operations	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 performance (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, Generac 440FER8212GGW, 268 hp
S53, Standby Diesel Engine, 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: $\leq$ 0.5 ppm for 3 min. and $\leq$ 0.25 ppm for 60 min. and $\leq$ 0.05 ppm for 24 hours	None	N	NA
Liquid Fuel Sulfur Content	BAAQMD 9-1-304	Y		< 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: $\leq$ 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, Generac 440FER8212GGW, 268 hp
S53, Standby Diesel Engine, 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		$\leq$ 0.15 grains per dscf	None	N	NA
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
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 # 22850, Parts 3-4 CCR Title 17 93115.10(d)(1) and (f)(1)	C & P/M	Hour Meter and Records
Hours of Operation	BAAQMD 9-8-330.3	N		Operating Hours for Reliability-Related Activities: $\leq$ 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

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, Generac 440FER8212GGW, 268 hp
S53, Standby Diesel Engine, 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)(1)(ii)	Y		Operating Hours for Maintenance Checks, Readiness Testing, and Other Non-Emergency Operation: $\leq$ 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		Operating Hours for Non-Emergency Operation: $\leq$ 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		$\leq$ 30 minutes for start-up	None	N	N/A
Main-tenance Events	40 CFR, Part 63, Subpart ZZZZ, Table 2d 4.a.	Y		Change Oil and Filter: Every 500 hours of operation or annually, whichever comes first	40 CFR 63.6655(e)	P/E	Records
Main-tenance Events	40 CFR, Part 63, Subpart ZZZZ, Table 2d 4.b.	Y		Inspect Air Cleaner: Every 1,000 hours of operation or annually, whichever comes first	40 CFR 63.6655(e)	P/E	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, Generac 440FER8212GGW, 268 hp
S53, Standby Diesel Engine, 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
Main-tenance Events	40 CFR, Part 63, Subpart ZZZZ, Table 2d 4.c.	Y		Inspect Hoses and Belts and (if necessary) Replace Hoses and Belts: Every 500 hours of operation or annually, whichever comes first	40 CFR 63.6655(e)	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, 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
FP	SIP 6-310	Y		≤ 0.15 grains per dscf	None	N	N

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII- F
Applicable Limits and Compliance Monitoring Requirements
S54, Standby Diesel Engine, Backup Generator, 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
TSP	BAAQMD 6-1-310.1	N		$\leq$ 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 9-8-330.3	N		Operating Hours for Reliability-Related Activities: $\leq$ 50 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	40 CFR 63.6640 (f)(1)(ii)	Y		Operating Hours for Maintenance Checks, Readiness Testing, and Other Non-Emergency Operation: $\leq$ 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		Operating Hours for Non-Emergency Operation: $\leq$ 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		$\leq$ 30 minutes for start-up	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, 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
Main-tenance Events	40 CFR, Part 63, Subpart ZZZZ, Table 2d 4.a.	Y		Change Oil and Filter: Every 500 hours of operation or annually, whichever comes first	40 CFR 63.6655(e)	P/E	Records
Main-tenance Events	40 CFR, Part 63, Subpart ZZZZ, Table 2d 4.b	Y		Inspect Air Cleaner: Every 1,000 hours of operation or annually, whichever comes first	40 CFR 63.6655(e)	P/E	Records
Main-tenance Events	40 CFR, Part 63, Subpart ZZZZ, Table 2d 4.c	Y		Inspect Hoses and Belts and (if necessary) Replace Hoses and Belts: Every 500 hours of operation or annually, whichever comes first	40 CFR 63.6655(e)	P/E	Records

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	SIP 9-7-301.1	Y		$\leq$ 30 ppm @ 3% O_2, dry	SIP 9-7-403	N	Initial source test

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 9-7-307.7	N		$\leq$ 30 ppm @ 3% O_2, dry	BAAQMD 9-7-506	P/A	Annual source test or use of portable monitor
NOx	BAAQMD Condition # 20651, Part 5	Y		$\leq$ 30 ppm @ 3% O_2, dry	BAAQMD Condition # 20651, Part 19	P/A	Source test
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		100 ^oF over saturated steam temperature	N	N	N
CO	SIP 9-7-301.2	Y		$\leq$ 400 ppm @ 3% O_2, dry	SIP 9-7-403	N	
CO	BAAQMD 9-7-307.7	N		$\leq$ 400 ppm @ 3% O_2, dry	BAAQMD 9-7-506	P/A	Annual source test or use of portable monitor
CO	BAAQMD Condition # 20651, Part 5	Y		$\leq$ 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: $\leq$ 0.5 ppm for 3 min. and $\leq$ 0.25 ppm for 60 min. and $\leq$ 0.05 ppm for 24 hours	None	N	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
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	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
Heat Input Rate	BAAQMD Condition # 20651, Part 3b	N		≤ 20.41 E6 BTU per hour	BAAQMD Condition # 20651, Part 18	P/D	Records

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 9-9-301.1.1 and SIP 9-9-301.1	Y		$\leq$ 42 ppmv @ 15% O_2, dry	BAAQMD 9-9-504	P/A	Source test
NOx	BAAQMD 9-9-301.2	N		$\leq$ 2.53 pounds per MW-hour or $\leq$ 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
NOx	BAAQMD Condition # 24050, Part 3	Y		$\leq$ 23 ppmv @ 15% O_2, dry and 34,400 pounds/year (excluding startup, shutdown, and commissioning)	BAAQMD Condition # 24050, Part 7	P/A	Source test
CO	BAAQMD Condition # 24050, Part 4	Y		$\leq$ 100 ppmv @ 15% O_2, dry and $\leq$ 92,200 pounds/year (excluding startup, shutdown, and commissioning)	BAAQMD Condition # 24050, Part 7	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
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
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 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	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

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 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		$\leq$ 15 pounds/day of total carbon or $\leq$ 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-L
Applicable Limits and Compliance Monitoring Requirements
S180 Anaerobic Digesters (11); 2 float, 8 fixed, 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		$\leq$ 15 pounds/day of total carbon or $\leq$ 300 ppm of total carbon concentration	None	N	N
H2S	BAAQMD 9-2-301	N		Property Line Ground Level Limits: $\leq$ 0.06 ppmv during any 24-hour period and $\leq$ 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		$\leq$ 200 ppmv in digester gas on an annual basis	BAAQMD Condition # 18860, Part 12	P/W	Fuel Sulfur Content

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-L
Applicable Limits and Compliance Monitoring Requirements
S180 Anaerobic Digesters (11); 2 float, 8 fixed, 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 $\leq$ 0.15 grains per dscf	N	N	N
FP	SIP 6-310	Y		Applies to flares only $\leq$ 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 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

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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 # 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 ASTM D 3031-81, Standard Test Method for Total Sulfur in Natural Gas by Hydrogenation
CARB EO VR-301-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)

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Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR Part 63 Subpart A 60.8 Performance Test	NESHAP for Gasoline Dispensing Facilities (1/24/11)	2) California Air Resources Board Vapor Recovery Test Procedure TP–201.1E—"Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves," adopted October 8, 2003, IBR approved for §63.11120(a)(1)(i). (3) California Air Resources Board Vapor Recovery Test Procedure TP–201.3—"Determination of 2-Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities," adopted April 12, 1996 and amended March 17, 1999, IBR approved for §63.11120(a)(2)(i). Bay Area Air Quality Management District Source Test Procedure ST–30—Static Pressure Integrity Test—Underground Storage Tanks, adopted November 30, 1983, and amended December 21, 1994 (incorporated by reference, *see* §63.14).
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 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**

Permit Renewal (Application # 28689, 26296, 26517, 26686) **November 7, 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

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.

BUG
Back-up generator

C1
An organic chemical compound with one carbon atom, for example: methane

C3
An organic chemical compound with three carbon atoms, for example: propane

XI. Glossary

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

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

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.

XI. Glossary

CH4 or CH_4
Methane

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

XI. Glossary

EO
Executive Order

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.

XI. Glossary

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

H2S or 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°F.

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.

XI. Glossary

MAX or Max.
Maximum

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

MIN or Min.
Minimum

MOP
The District's Manual of Procedures.

MSDS
Material Safety Data Sheet

MSW
Municipal solid waste

MW
Molecular weight

N2 or 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

XI. Glossary

NOx
Oxides of nitrogen.

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

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

O2 or 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 BTU
MMcf	=	million cubic feet
Mg	=	mega grams
M scf	=	one thousand standard cubic feet
MW	=	megawatts
ppb	=	parts per billion
ppbv	=	parts per billion, by volume
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