

Bay Area Air Quality Management District

939 Ellis Street
San Francisco, CA 94109
(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:

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

Responsible Official

David R. Williams
(510) 287-1663

Facility Contact

Kurt Haunschild
(510) 287-1407

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

BAAQMD Engineering
Division Contact:
Hon-Ting Man

Primary SIC: 4952

Product: Treated Municipal Wastewater

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Jeff McKay for Jack P. Broadbent
Jack P. Broadbent, Executive Officer/Air Pollution Control Officer

December 28, 2010
Date

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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 7/9/08);
- SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 6/28/99);
- BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 3/4/09);
- SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 1/26/99);
- BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 6/15/05);
- SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through 1/26/99);
- BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 12/21/04),
- SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 1/26/99),
- BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants
(as amended by the District Board on 1/6/10)
- BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 4/16/03).
- SIP Regulation 2, Rule 6 – Permits, Major Facility Review
(as approved by EPA through 6/23/95)
- BAAQMD Regulation 2, Rule 9 –Interchangeable Emission Reduction Credits
(as amended by the District Board on 6/15/05)

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

1. This Major Facility Review Permit was issued on July 26, 2005 and expires on June 30, 2010. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than December 31, 2009 and no earlier than June 30, 2009. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after June 30, 2010.** If the permit renewal has not been issued by June 30, 2010, but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)

I. Standard Conditions

3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)
4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
5. The filing of a request by the facility for a permit modification, revocation and 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)
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)

I. Standard Conditions

12. The permit holder is responsible for compliance, and certification of compliance, with all conditions of the permit, regardless whether it acts through employees, agents, contractors, or subcontractors. (Regulation 2-6-307)

C. Requirement to Pay Fees

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

D. Inspection and Entry

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

E. Records

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

F. Monitoring Reports

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

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

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

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be July 1st to June 30th. The certification shall be submitted by July 31st of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this

I. Standard Conditions

requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification should be sent to the Environmental Protection Agency at the following address:

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

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

H. Emergency Provisions

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. (MOP Volume II, Part 3, §4.8)
3. The granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, §4.8)

I. Severability

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

J. Miscellaneous Conditions

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

II. EQUIPMENT

Table II-A - Permitted Sources

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

S-#	Description	Make or Type	Model	Capacity
S-37	Multi-Fuel Cogeneration Engine #1, Diesel Fuel/Digester Gas/Natural Gas Fired	DeLaval/Cooper	DGSR-46	19.8 MM Btu/hr, 28,600 cu in displacement
S-38	Multi-Fuel Cogeneration Engine #2 Diesel Fuel/Digester Gas/Natural Gas Fired	DeLaval/Cooper	DGSR-46	19.8 MM Btu/hr, 28,600 cu in displacement
S-39	Multi-Fuel Cogeneration Engine #3 Diesel Fuel/Digester Gas/Natural Gas Fired	DeLaval/Cooper	DGSR-46	19.8 MM Btu/hr, 28,600 cu in displacement
S-43	Wet Weather Primary Sludge Thickeners (2)	Custom	Custom	N/A
S-45	Aerated Grit Tanks (8)	Custom	N/A	N/A
S-47	Scum Thickening Building	Custom	N/A	N/A
S-48	Gasoline Dispensing Facility #9008	Emco-Wheaton	N/A	3000 gallon tank; one gasoline dispensing nozzle
S-49	Diesel Engine Backup Generator, Portable	Allis Chalmers	3500 MK11	134 HP
S-50	Diesel Engine Backup Generator	Detroit Diesel	10437316	238 HP
S-51	Diesel Engine Backup Generator	Generac	440FER82 12 GGW	268 HP
S-52	Diesel Engine Backup Generator, Portable	Generac	unknown	280 HP
S-53	Diesel Engine Backup Generator	Cummins	6CTA8.3-G	277 HP
S-54	Diesel Engine Backup Generator	Caterpillar	3412B	1114 HP
S-55	Hot Water Boiler, Digester Gas Fired	Cleaver-Brooks	W28- HHW- BLR-001	20.41 MMBTU/hr
S-56	Digester Gas Turbine #1,	Solar	Mercury 50	4.5 MW; 44.5

II. Equipment List

Table II-A - Permitted Sources

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

S-#	Description	Make or Type	Model	Capacity
	Digester Gas Fired			MMBTU/hr
S-57	Digester Gas Turbine #2, Digester Gas Fired	Solar	Mercury 50	4.5 MW; 44.5 MMBTU/hr
S-100	Wastewater Treatment Plant- Fugitive Emissions	Custom	A3003/ A3005	N/A
S-110	Headworks, IPS, Barscreens	Custom	N/A	N/A
S-120	Primary Treatment; 16 Sedimentation Tanks	Custom	N/A	N/A
S-130	Secondary Treatment; 8 HPO Activated Sludge Units	Custom	N/A	N/A
S-140	Secondary Clarifiers; 12 Clarifiers	Custom	N/A	N/A
S-160	Disinfection; Chlorination Contact Tanks, Non-ducted, Effluent	Custom	N/A	N/A
S-170	Sludge Handling, 3 WAS GBTs,- 6 Dewatering Centrifuges	Custom	N/A	N/A
S-180	Anaerobic Digesters (11), 10 Floating Cover, 1 Dystor Unit	Custom	N/A	N/A

Table II-B – Abatement Devices

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

II. Equipment List

Table II-B – Abatement Devices

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

III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements will not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit. This section also contains provisions that may apply to temporary sources.

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

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

The full language of SIP requirements is on EPA Region 9's website. The address is:
<http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions>.

NOTE:

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

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	FE Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (7/9/08)	N
SIP Regulation 1	General Provisions and Definitions (8/27/99)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (3/4/09)	N
BAAQMD 2-1-429	Federal Emissions Statement (12/21/04)	N
SIP Regulation 2, Rule 1	General Requirements (1/26/99)	Y

III. General Applicable Requirements

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	FE Federally Enforceable (Y/N)
SIP Regulation 2-1-429	Federal Emissions Statement (4/3/95)	Y
BAAQMD Regulation 2, Rule 5	New Source Review of Toxic Air Contaminants (1/6/10)	N
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (3/6/02)	N
SIP Regulation 5	Opening Burning (9/4/98)	Y
BAAQMD Regulation 6, Rule 1	Particulate Matter - General Requirements (12/5/07)	N
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (7/20/05)	N
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (3/22/95)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/21/01)	Y
BAAQMD Regulation 8, Rule 4	Organic Compounds – General Solvent and Surface Coating 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 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 (7/12/02)	N
SIP Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products	Y

III. General Applicable Requirements

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	FE Federally Enforceable (Y/N)
	(2/26/02)	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)	N
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)	Y
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants - Hydrogen Sulfide (3/17/82)	N
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/7/98)	N
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (9/2/81)	Y
California Health and Safety Code Section 41750 et seq.	Portable Equipment	N
California Health and Safety Code Section 44300 et seq.	Air Toxics "Hot Spots" Information and Assessment Act of 1987	N
California Health and Safety Code Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines	N
California Health and Safety Code Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater	N
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (6/19/95)	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

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

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

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

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

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

IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (7/20/05)		
8-2-301	Limitations on Total Carbon Emissions	N	
SIP Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (3/22/95)		
8-2-301	Limitations on Total Carbon Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	N	
9-1-302	General Emission Limitations	N	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	N	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9, Rule 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	
9-8-503	Quarterly Demonstration of Compliance	N	
SIP Regulation 9, Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (12/15/97)		
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y	
9-8-302.1	NOx Limits for Lean Burn Engines	Y	
9-8-302.3	CO Limits	Y	

IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Cond 20651			
Part 10	NOx Limit (9-8-302)	N	
Part 11	CO Limit (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	
Part 16	Deleted		
Part 17	Deleted	Y	
Part 18	Recordkeeping (2-6-409.2, 2-6-501)	Y	
Part 19	Annual Performance Test Requirement (2-6-409.2)	Y	
Part 20	Records Retention (2-6-409)	Y	

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

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

IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-303	Ringelmann No. 2 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Particulate concentration corrected to 6% oxygen, dry basis	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (7/20/05)		
8-2-301	Limitations on Total Carbon Emissions	N	
SIP Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (3/22/95)		
8-2-301	Limitations on Total Carbon Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	N	
9-1-302	General Emission Limitations	N	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	N	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9, Rule 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	
9-8-503	Quarterly Demonstration of Compliance	N	

IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
BAAQMD Cond 20651			
Part 6	NOx Limits (BACT)	Y	
Part 7	POC Limits (BACT)	Y	
Part 8	CO Limits (BACT)	Y	
Part 9	Filterable PM Limits (BACT)	Y	
Part 12	Allowable Fuel: Digester Gas and/or Natural Gas with Diesel Pilot (Cumulative Increase)	Y	
Part 13	Thermal Capacity Limitation (Cumulative Increase)	Y	
Part 14	Annual Hours of Operation (Cumulative Increase)	Y	
Part 15	Diesel Throughput Limitation (Cumulative Increase)	Y	
Part 16	Deleted		
Part 17	Deleted		
Part 18	Recordkeeping (2-6-409.2, 2-6-501)	Y	
Part 19	Annual Performance Test Requirement (2-6-409.2)	Y	
Part 20	Records Retention (2-6-409)	Y	

IV. Source-Specific Applicable Requirements

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

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

Table IV-D
Source Specific Applicable Requirements
S-48, GDF #9008

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds – Storage of Organic Liquids (10/18/06)		
8-5-116	Exemption, Gasoline Storage Tanks at Gasoline Dispensing Facilities	N	
SIP Regulation 8, Rule 5	Organic Compounds – Storage of Organic Liquids (6/5/03)		
8-5-116	Exemption, Gasoline Storage Tanks at Gasoline Dispensing Facilities	Y	

IV. Source-Specific Applicable Requirements

Table IV-D
Source Specific Applicable Requirements
S-48, GDF #9008

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 7	Organic Compounds - Gasoline Dispensing Facilities (11/6/02)		
8-7-301	Phase I Requirements	Y	
8-7-301.1	Requirement for CARB Phase I System	Y	
8-7-301.2	Installation of Phase I Equipment per CARB Requirements	Y	
8-7-301.3	Submerged Fill Pipes	Y	
8-7-301.5	Maintenance of Phase I Equipment per Manufacturers Guidelines	Y	
8-7-301.6	Leak-Free, Vapor-Tight	Y	
8-7-301.7	Poppeted Drybreaks	Y	
8-7-301.8	Coaxial Phase I Prohibition	Y	
8-7-301.9	Swivel Adaptors	Y	
8-7-301.10	98% Phase I Vapor Recovery Efficiency	Y	
8-7-301.12	Vapor Spill Box Drain Valve Prohibition	Y	
8-7-301.13	Annual Vapor Tightness Testing	Y	
8-7-302	Phase II Requirements	Y	
8-7-302.1	Requirement for CARB Certified Phase II System	Y	
8-7-302.2	Maintenance of Phase II System per CARB Requirements	Y	
8-7-302.3	Maintenance of All Equipment as Specified by Manufacturer	Y	
8-7-302.4	Repair of Defective Parts Within 7 Days	Y	
8-7-302.5	Leak-Free, Vapor-Tight	Y	
8-7-302.6	Nozzle Insertion Interlocks	Y	
8-7-302.7	Nozzle Vapor Check Valves	Y	
8-7-302.8	Liquid Removal Devices	Y	
8-7-302.9	Coaxial Hoses	Y	
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	
8-7-313	New and Modified Phase II Installations	Y	

IV. Source-Specific Applicable Requirements

**Table IV-D
 Source Specific Applicable Requirements
 S-48, GDF #9008**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-7-316	Pressure Vacuum Valves, Aboveground Storage Tanks	Y	
8-7-404	Certification of New 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	
BAAQMD Cond # 21663			
part 1	Throughput limit (Basis: BAAQMD Toxic Policy)	N	
BAAQMD Cond #16516	Annual Pressure Decay (ST-38) Test	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 2	Permits – General Requirements (3/4/09)		
2-1-220.1	Portable Equipment; Single Site Time Limit	N	
BAAQMD Regulation 6, Rule 1	Particulate Matter - General Requirements (12/5/07)		
6-1-303	Ringelmann No. 2 Limitation	N	
6-1-305	Visible Particulates	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	

IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-303	Ringelmann No. 2 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Particulate concentration corrected to 6% oxygen, dry basis	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	N	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	N	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (6/8/99)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9, Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (7/25/07)		
9-8-110.5	Exemption, Emergency Standby Engines	N	
9-8-330	Hours of Operation, Emergency Standby Engines	N	
9-8-331	Hours of Operation, Essential Public Service Standby Engines	N	
9-8-502.1	Recordkeeping, Demonstration of Emergency Standby Status	N	
9-8-530	Monitoring and Recordkeeping, Emergency Standby Engines	N	
CCR Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater (2/26/04)		
93116.3(a)	Fuel Requirements, Portable Diesel Engines	N	
93116.3(b)(3)	Diesel PM Standards for Portable Emergency Use Engines	N	1/1/2020
BAAQMD Condition #19058			
Part 1	Eligibility Requirements (2-1-220)	Y	
Part 2	Single Site Operating Hours - Limitation (2-1-220.1)	Y	

IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	Noncompliance Reporting (2-1-403)	Y	
Part 4	Diesel Fuel Requirements (CCR 93116.3 (a))	N	
Part 5	Deleted 12-15-04	Y	
Part 6	Public Nuisance (1-301)	Y	
Part 7	Limitation in Operation Near School (2-1-412)	Y	
Part 8	Recordkeeping (1-441, 9-8-530)	Y	
Part 9	Reporting (1-441)	Y	

Table IV-F
Source-specific Applicable Requirements
S-50 Diesel Engine BUG, Detroit Diesel 1043731616, 238 hp
S-51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp
S-53 Diesel Engine BUG, S/N 44852080, 277 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter - General Requirements (12/5/07)		
6-1-303	Ringelmann No. 2 Limitation	N	
6-1-305	Visible Particulates	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-303	Ringelmann No. 2 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Particulate concentration corrected to 6% oxygen, dry basis	Y	
6-401	Appearance of Emissions	Y	

IV. Source-Specific Applicable Requirements

Table IV-F
Source-specific Applicable Requirements
S-50 Diesel Engine BUG, Detroit Diesel 1043731616, 238 hp
S-51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp
S-53 Diesel Engine BUG, S/N 44852080, 277 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	N	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	N	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (6/8/99)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9, Rule 8	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (7/25/07)		
9-8-110.5	Exemption, Emergency Standby Engines	N	
9-8-330	Hours of Operation, Emergency Standby Engines	N	
9-8-331	Hours of Operation, Essential Public Service Standby Engines	N	
9-8-502.1	Recordkeeping, Demonstration of Emergency Standby Status	N	
9-8-530	Monitoring and Recordkeeping, Emergency Standby Engines; Non-resettable Totalizing Meter	N	
CCR Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines (10/18/07)		
93115.5(b)	Fuel requirements, in-use emergency standby diesel CI engines	N	
93115.6(b)(3)(A)(1)(a)	Limited to 20 hours of operating per year for maintenance and testing purposes	N	
93115.10	Recordkeeping, Reporting, and Monitoring Requirements	N	
93115.10(e)(1)	Non-resettable totalizing hour meter	N	
93115.10(g)	Reporting requirements for emergency standby engines	N	
BAAQMD Condition #19040			
Part 1	Hours of Operation (CCR 93115.6(b)(3)(A)(1)(a))	N	
Part 2	Definition of Emergency Use (9-8-231)	Y	
Part 3	Definition of Reliability Related Activities (9-8-232)	Y	

IV. Source-Specific Applicable Requirements

Table IV-F
Source-specific Applicable Requirements
S-50 Diesel Engine BUG, Detroit Diesel 1043731616, 238 hp
S-51 Diesel Engine BUG, Generac 440FER8212GGW, 268 hp
S-53 Diesel Engine BUG, S/N 44852080, 277 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	Diesel Fuel Requirements (CCR 93115.5(b), CCR 93115.10(g)(G)(1))	N	
Part 5	Monitoring (CCR 93115.10(e)(1))	N	
Part 6	Recordkeeping (1-441, 9-8-530, CCR 93115.10(g))	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter - General Requirements (12/5/07)		
6-1-303	Ringelmann No. 2 Limitation	N	
6-1-305	Visible Particulates	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-303	Ringelmann No. 2 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Particulate concentration corrected to 6% oxygen, dry basis	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	N	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	N	

IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9, Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (7/25/07)		
9-8-110.5	Exemption, Emergency Standby Engines	N	
9-8-330	Hours of Operation, Emergency Standby Engines	N	
9-8-331	Hours of Operation, Essential Public Service Standby Engines	N	
9-8-502.1	Recordkeeping, Demonstration of Emergency Standby Status	N	
9-8-530	Monitoring and Recordkeeping, Emergency Standby Engines	N	
CCR Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines (10/18/07)		
93115.5(b)	Fuel requirements, in-use emergency standby diesel CI engines	N	
93115.6(b)(3)(A)(2)(b)	Limited to 50 hours of operating per year for maintenance and testing purposes	N	
93115.10	Recordkeeping, Reporting, and Monitoring Requirements	N	
93115.10(e)(1)	Non-resettable totalizing hour meter	N	
93115.10(g)	Reporting requirements for emergency standby engines	N	
BAAQMD Condition #24733			
Part 1	Hours of Operation (CCR 93115.6(b)(3)(A)(2)(b))	N	
Part 2	Definition of Emergency Use (9-8-231)	Y	
Part 3	Definition of Reliability Related Activities (9-8-232)	Y	
Part 4	Diesel Fuel Requirements (CCR 93115.5(b), CCR 93115.10(g)(G)(1))	N	
Part 5	Monitoring (CCR 93115.10(e)(1))	N	
Part 6	Recordkeeping (1-441, 9-8-530, CCR 93115.10(g))	Y	

IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter - General Requirements (12/5/07)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Particulate Concentration Correction to 6% Oxygen, Dry	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 Correction to 6% Oxygen, Dry	Y	
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (7/20/05)		
8-2-301	Limitations on Total Carbon Emissions	N	
SIP Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (3/22/95)		
8-2-301	Limitations on Total Carbon Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	N	
9-1-302	General Emission Limitations	N	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
BAAQMD Regulation 9, Rule 7	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (7/30/08)		
9-7-301	Interim Emission Limits	N	
9-7-301.1	NOx Emissions Limit	N	
9-7-301.4	CO Emissions Limit	N	

IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-7-307	Final Emissions Limits	N	
9-7-307.7	Emissions Limits – Digester Gas	N	1/1/2012
9-7-311	Insulation Requirements	N	
9-7-312	Stack Gas Temperature Limits	N	1/1/2011
9-7-313	Tune-Up Requirements	N	
9-7-407	Identification	N	
9-7-503	Records	N	
9-7-503.1	Records of tune-ups	N	
9-7-503.5	Digester Gas, operating hours	N	
SIP Regulation 9, Rule 7	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (12/15/97)		
9-7-111	Limited Exemption, Low Fuel Usage	Y	
9-7-301	Emissions Limits – Gaseous Fuels	Y	
9-7-301.1	NOx Emissions Limit	Y	
9-7-301.2	CO Emissions Limit	Y	
9-7-503	Records	Y	
BAAQMD Cond 20651			
Part 1	Allowable fuel Type (Cumulative Increase)	Y	
Part 2	Maximum Allowable Operation: The Boiler S-55 shall not be operated simultaneously with 2 or more Engines (Cumulative Increase)	Y	
Part 3	Boiler Gross Heat Input Limit (Cumulative Increase)	Y	
Part 4	Deleted	N/A	
Part 5	NOx and CO Emission Limits (BACT)	Y	
Part 19	Annual Source Test, NOx and CO	Y	

IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter - General Requirements (12/5/07)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Particulate Concentration Correction to 6% Oxygen, Dry	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 Correction to 6% Oxygen, Dry	Y	
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (7/20/05)		
8-2-301	Limitations on Total Carbon Emissions	N	
SIP Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (3/22/95)		
8-2-301	Limitations on Total Carbon Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants- Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	N	
9-1-302	General Emission Limitations	N	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants- Sulfur Dioxide (6/8/99)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
BAAQMD Regulation 9, Rule 9	Inorganic Gaseous Pollutants- Nitrogen Oxides from Stationary Gas Turbines (12/6/06)	Y	
9-9-113	Exemption- Inspection and Maintenance	N	
9-9-114	Exemption- Start-up and Shutdown	N	
9-9-115	Limited Exemption, Minor Inspection and Maintenance Work	N	

IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-9-120	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	
9-9-401	Efficiency Certification	N	
9-9-402.2	Comply with 9-9-301.2 by 1/1/2010, unless the turbine has not had a scheduled major maintenance outage by January 1, 2010	N	30 days after next scheduled major maintenance outage, or 1/1/2012
9-9-406	Other Useful Heat Recovery	N	
9-9-501	Monitoring and Recordkeeping requirements	N	
9-9-504	Annual Demonstration of Compliance	N	
9-9-605	Compliance with Output Based NOx Emission Standards	N	
SIP Regulation 9, Rule 9	Inorganic Gaseous Pollutants- Nitrogen Oxides from Stationary Gas Turbines (9/21/94)	Y	
9-9-113	Exemption- Inspection and Maintenance	Y	
9-9-114	Exemption- Start-up and Shutdown	Y	
9-9-301	Emission Limits, General	Y	
9-9-301.1	NOx Emissions Limits, Turbines rated 0.3 MW to less than 10.0 MW	Y	
9-9-401	Efficiency Certification	Y	
9-9-501	Monitoring and Recordkeeping requirements	Y	
40 CFR 60	Standards of Performance for New Stationary Sources (12/23/71)	Y	
Subpart A	General Provisions	Y	
60.7	Notification and record keeping		

IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.7(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	
60.19	General notification and reporting requirements	Y	
Subpart GG	Standards of Performance for Stationary Gas Turbines		
60.332	Standard for nitrogen oxides	Y	
60.332(l)	Exemption from NOx standard – Regenerative Cycle Gas Turbines	Y	
60.333	Standard for sulfur oxides	Y	
60.333 (a)	SO2 emissions limit	Y	
60.334	Monitoring of operations	Y	
60.334 (h)(1)	Fuel sulfur content	Y	
60.335	Test methods and procedures	Y	
BAAQMD			
Cond 24050			
Part 1	Fuel Requirement, digester gas only (Cumulative Increase)	Y	
Part 2	Maximum Fuel Input (Cumulative Increase)	Y	
Part 3	NOx Emissions Limit (BACT, Offsets, Cumulative Increase)	Y	
Part 4	CO Emissions Limit (BACT, Cumulative Increase)	Y	
Part 5	SO2 Emissions Limit (40 CFR Part 60 Subpart GG Section 60.333)	Y	
Part 6	Fuel Metering (Cumulative Increase)	Y	
Part 7	Source Test Requirements (BACT, Cumulative Increase, Regulation 9-9-301.1)	Y	
Part 8	Periodic Flue Gas Testing (Cumulative Increase)	Y	
Part 9	Digester Gas BTU Content – Sampling (Cumulative Increase)	Y	
Part 10	Recordkeeping (Regulations 1-441, 2-6-501)	Y	

IV. Source-Specific Applicable Requirements

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

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

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operation (7/20/05)		
8-2-301	Miscellaneous Operations Standards	N	
SIP Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operation (3/22/95)		
8-2-301	Miscellaneous Operations	Y	
BAAQMD Cond #17335	Operating Requirements		
Part 1	Abatement Requirements (2-1-403)	N	
Part 2	Abatement Device - Maintenance of Abatement Efficiency (2-1-403)	N	

IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	Monitoring Parameters- Inlet & Outlet H2S Measurements (2-1-403)	N	
Part 4	Recordkeeping (2-1-403)	N	
Part 5	Consequences of Odor Complaints (2-1-403)	N	

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

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

IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operation (7/20/05)		
8-2-301	Miscellaneous Operations Standards	N	
SIP Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operation (3/22/95)		
8-2-301	Miscellaneous Operations	Y	
BAAQMD Cond #18006	Operating Requirements		
Part 1	Activated Sludge Throughput: Monitoring & Recordkeeping required (Cumulative Increase)	Y	
Part 2	Abatement Requirements (1-301)	Y	
Part 3	Abatement Scrubber Maintenance (2-1-403)	Y	
Part 4	Recordkeeping (2-6-409.2)	Y	

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

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

IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants - Hydrogen Sulfide (10/6/99)		
9-2-301	H2S ground-level concentration limitations	N	
BAAQMD Cond # 18860			
Part 1	Primary Abatement of Digester Gas (1-301, 8-2-301)	N	
Part 2	Secondary Abatement of Digester Gas (1-301, Cumulative Increase)	N	
Part 3	Digester Gas Sulfide ppm Limit (BACT)	N	
Part 4	Weekly Sulfide Content Monitoring (1-441)	N	
Part 5	Recordkeeping (2-6-409.2)	N	

V. SCHEDULE OF COMPLIANCE

The permit holder shall comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit on a timely basis.

VI. PERMIT CONDITIONS

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

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

Condition #2409

S-43, Wet Weather Primary Sludge Thickeners

S-45, Aerated Grit Tanks

S-47, Scum Thickening Building

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

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Condition 16516

Source S-48 GDF G-9008

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

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

Condition #17335

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

- *1. Source S-110 shall be abated at all times by A-461 and/or A-462 carbon adsorber(s) to control emissions of H₂S unless the abatement device is removed from service for maintenance or regeneration purposes. Periods of operation without the use of A-461 or A-462 shall be minimized. (Basis: Regulation 2-1-403)
- *2. To ensure good H₂S abatement efficiency, EBMUD shall replace or regenerate the carbon adsorption bed in A-461 and/or A-462 upon determination that breakthrough is imminent or has been reached. (Basis: Regulation 2-1-403)
- *3. To ensure compliance with Part 2, the inlet and outlet H₂S concentrations, as well as any other appropriate operating parameters shall be continuously monitored and reviewed on a daily basis to determine when carbon adsorption bed breakthrough is imminent or has been reached. (Basis: Regulation 2-1-403)

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- *4. Monitoring records shall be kept and maintained to document periods of shutdown of A-461 or A-462 and to demonstrate compliance with Parts 2 & 3 above. (Basis: Regulation 2-1-403)
- *5. If the District receives more than five confirmed odor complaints within one month, the EBMUD shall take immediate action to remedy the odor problem. (Basis: Regulation 2-1-403)

Condition 18006

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

1. Throughput

EBMUD shall monitor and record on a daily basis the activated sewage sludge throughput through S-170. (Basis: Cumulative Increase)

2. Abatement

All vapor emissions from S-170 shall be routed under negative pressure to A-7 or A-8 Atomized Mist Scrubber. (Basis: Cumulative Increase)

- 3. A-7 and A-8 Atomized Mist Scrubbers shall be properly maintained and kept in good operating condition at all times. (Basis: Regulation 2-1-403)

4. Records

To demonstrate compliance with the above conditions, EBMUD shall keep and maintain the following records in a District approved log: (Basis: Regulation 2-6-409.2)

- a. Records or all inspections and all maintenance work on A-7 and A-8. Records of each inspection shall consist of a log containing the date of inspection and the initials of the personnel that inspected A-7 and/or A-8.
- b. Records noting the occurrence and duration of any malfunction of A-7 or A-8, including the date, the suspected cause of the malfunction, and any action taken to restore normal operation.
- c. All records shall be retained on-site for 5 years from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

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Condition 18860

S-180, Anaerobic Digesters

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

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

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

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

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

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

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

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

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

Condition 19040

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

1. Hours of Operation
S-50, S-51, and S-53 shall only be operated to mitigate emergency conditions or for reliability-related activities. Operation for reliability-related activities shall not exceed 20 hours in any calendar year. Operation while mitigating emergency conditions is unlimited. [Basis: CCR 93115.6(b)(3)(A)(1)(a)]
2. Emergency use is defined as the use of an emergency standby engine during any of the following: [Basis: Regulation 9-8-231]
 - a. Loss of regular natural gas supply.
 - b. Failure of regular electric power supply.
 - c. Flood mitigation.

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- d. Sewage overflow mitigation.
 - e. Fire,
 - f. Failure of a primary motor, but only for such time as needed to repair or replace the primary motor.
3. Reliability-related activities is defined as any of the following: [Basis: Regulation 9-8-232]
- a. Operation of an emergency standby engine to test its ability to perform for an emergency use, or
 - b. Operation of an emergency standby engine during maintenance of a primary motor
4. Only CARB Diesel fuel or approved alternative shall be combusted at these engines. The maximum sulfur content of the fuel shall be demonstrated by vendor certification. [Basis: CCR 93115.5(b), CCR 93115.10(g)(G)(1)]
5. Monitoring
Each of these engines shall be equipped with a non-resettable totalizing meter that measures and records the hours of operation for the engine. This meter shall have a minimum display capability of 9,999 hours. [Basis: CCR 93115.10(e)(1)]
6. Recordkeeping
The Permit Holder shall maintain the following monthly records for each engine in a District-approved log. Records shall be maintained for at least 5 years from the date of entry. The Permit Holder shall make the log available for District inspection upon request. [Basis: Regulations 1-441, 9-8-530, CCR 93115.10(g)]
- a. Hours of operation (total)
 - b. Hours of operation (emergency).
 - c. For each emergency, the nature of the emergency condition.
 - d. Diesel sulfur records required in Part 4, above.
 - e. Monitoring records as noted in Part 5, above.

Condition 19058

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

1. This portable equipment shall operate at all times in conformance with the eligibility requirements set forth in BAAQMD Regulation 2-1-220 for portable equipment. [Basis: Regulation 2-1-220]

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2. If the portable equipment remains at any fixed location in the Bay Area Air Basin for more than 12 months, the portable permit will automatically revert to a conventional permanent location BAAQMD permit and will lose its portability. [Basis: Regulation 2-1-220]
3. Any violation of Part #1, above, shall be reported to the Director of the Compliance and Enforcement Division no later than two business days after the incidence. In addition, any loss of portability per Part #2 shall be reported to the Director of the Compliance and Enforcement Division no later than 30 days after the loss of its portability. [Basis: Regulation 2-1-403]
4. Only CARB Diesel Fuel or approved alternative shall be combusted in these engines. The maximum sulfur content of the fuel shall be demonstrated by vendor certification. [Basis: CCR 93116.3(a)]
5. Deleted 12-15-04, AN 3926.
6. This equipment shall not emit emissions in sufficient quantities as to cause a public nuisance under Regulation 1-301. [Basis: Regulation 1-301]
7. These engines shall not be operated for longer than 72 consecutive hours within 1,000 feet of a school. To operate for longer than 72 consecutive hours within 1,000 feet of a school, the Permit Holder must submit an application to the District so that proper notification of your intended operation can be made known to the affected public in advance of any continued usage of the equipment. [Basis: Regulation 2-1-412]
8. Recordkeeping
The following records shall be kept in a District approved logbook and retained for a period of at least five years following the date of entry. The log shall be kept with the equipment and made available to District staff upon request. [Basis: Regulation 1-441, 9-8-530]
 - a. Monthly hours of operation or monthly fuel usage for each source.
 - b. The location(s) at which the equipment was operated for more than 72 consecutive hours including the dates operated at each location.
 - c. Diesel sulfur records required in Part 4, above.
9. Reporting
The Permit Holder shall notify the District, in writing, as soon as practicable, of the new location in which they intend to operate for longer than 72 consecutive hours. The notification shall include: [Basis: Regulation 1-441]

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

Condition 19184: Deleted, AN 18480

Condition 20651

S-55, Hot Water Boiler

S-37, Multi-Fuel Cogeneration Engine #1

S-38, Multi-Fuel Cogeneration Engine #2

S-39, Multi-Fuel Cogeneration Engine #3

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

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

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

6. NO_x emissions, calculated as NO₂, shall not exceed 1.25 g/hp-hr, except during transient periods or in the event of catastrophic damage to the natural gas fuel supply, when the engine may be fired solely on diesel fuel.

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If a source test demonstrates nitrogen oxide Emissions greater than 1.0 g/hp-hr, but less than 1.25 g/hp-hr, the operator shall either conduct a second source test to verify the results of the first test, or shut down the engine for necessary maintenance. In the event the retest confirms an emission level greater than 1.0 g/hp-hr, the operator shall immediately shut down the engine for maintenance. (Basis: BACT)

7. The total POC emissions from S-38 shall not exceed 0.6 g/hp-hr, except during transient periods or in the event of catastrophic damage to the natural gas fuel supply, when the engine may be fired solely on diesel fuel.. (Basis: BACT)
8. The total CO emissions from S-38 shall not exceed 3.0 g/hp-hr, except during transient periods or in the event of catastrophic damage to the natural gas fuel supply, when the engine may be fired solely on diesel fuel. (Basis: BACT)
9. Filterable particulate emissions from S-38 shall not exceed 0.085 g/hp-hr, except during transient periods or in the event of catastrophic damage to the natural gas fuel supply, when the engine may be fired solely on diesel fuel. (Basis: BACT)

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

10. The total nitrogen oxide emissions from each of the engines S-37 and S-39, shall not exceed 140 ppmvd @ 15% Oxygen. (Basis: Regulation 9-8-302)
11. The total carbon monoxide emissions from each of the engines, S-37 and S-39 shall not exceed 2000 ppmvd @ 15% Oxygen. (Basis: Regulation 9-8-302)

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

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

Transient Periods are defined as any of the following:

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

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

13. Total thermal throughput shall not exceed 19.8 MM Btu/hr per engine. (Basis: Cumulative Increase)
14. Total combined hours of operation of engines S-37, S-38, and S-39 shall not exceed 25,316 hours in any rolling 365 day period. (Basis: Cumulative Increase)
15. The total diesel fuel fed to engines S-37, S-38, and S-39 combined shall not exceed 150,000 gallons in any rolling 365 day period. (Basis: Cumulative Increase)
16. Deleted 7-2008 (AN 17749)
17. Deleted 10-2006)
18. To determine compliance with the above conditions, the Permit Holder shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including the following information:
 - a. Daily records of the hours of operation of engines S-37, S-38, S-39 and boiler S-55.
 - b. Total digester gas, natural gas, and/or diesel consumption for the engines and boiler S-55.
 - c. Records of hours of operation during transient periods with an explanation of the nature of the transient period.
19. The owner/operator shall ensure that an annual performance test is conducted on each engine and the boiler S-55 in accordance with the District test procedures to demonstrate compliance with the applicable emissions limits given above.. The owner/operator may submit an alternative monitoring plan to the District for approval. If the alternative monitoring plan is approved, the plan shall supersede the annual source test requirement. Approvals shall be processed using the permit modification procedure contained in Regulation 2, Rule 6. (Basis: Regulation 2-6-409.2)
20. Records associated with the above requirements shall be maintained for a period of at least 5 years from the date of the inspection or test and be available for review by District personnel upon request. (Basis: Regulation 2-6-501)

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Condition 21663

S-48, GDF G-9008

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

Condition 21759

S-100, Municipal Wastewater Treatment Plant

1. Flowrate

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

2. Nuisance

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

3. Records

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

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

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Condition 21921: Deleted, AN 18480

Condition 21924: Deleted, AN 18480

Condition 22850: Replaced with new permit condition, AN 18480

Condition 24733: New Condition

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

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

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capability of 9,999 hours. [Basis: CCR 93115.10(e)(1)]

6. Recordkeeping

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

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

Condition 24050

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

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

1. Gas turbines S-56 and S-57 shall be fired only on S-190 digester gas. (Basis: Cumulative Increase)
2. Total combined heat input to S-56 and S-57 gas turbines shall not exceed 389,820 MM BTU HHV during any consecutive 12-month period. Until 12-months of operation is reached, the turbines shall be limited to the above BTU limit prorated for the number of months of operation. (Basis: Cumulative Increase)
3. Nitrogen Oxide (NO_x) emissions, calculated as NO₂, from sources S-56 and S-57 shall not exceed 23 ppm (15-minute average), corrected to 15% oxygen and 34,400 lb per turbine during any consecutive 12-month period. Until 12 months of operation is reached, each turbine shall be limited to the above mass limit prorated for the number of months of operation. These limits are applicable during steady state turbine operation and are not applicable during normal transient periods of startup, shutdown, and turbine commissioning. (Basis: BACT, Offsets, Cumulative Increase)
4. Carbon Monoxide (CO) emissions during normal turbine operation, from sources S-56 and S-57 shall not exceed 100 ppm (15-minute average), corrected to 15% oxygen and 92,200 lb per turbine during any consecutive 12-month period. Until 12 months of operation is reached, each turbine shall be limited to the above mass limit prorated for the number of months of operation. These limits are applicable during steady state turbine

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operation and are not applicable during normal transient periods of startup, shutdown, and turbine commissioning. (Basis: BACT, Cumulative Increase)

5. Sulfur Dioxide (SO₂) emissions from the gas turbines shall not exceed 150 ppmv, dry, corrected to 15% oxygen. The owner or operator may demonstrate compliance with this part by analyzing the exhaust gas of either turbine or by calculating the SO₂ concentration by mass balance based on the digester gas TRS concentration. The owner or operator shall determine and record the turbine SO₂ exhaust concentration at least one time every calendar month. (Basis: 40 CFR Part 60 Subpart GG Section 60.333)
6. The owner or operator shall install and maintain District-approved totalizing digester gas fuel meters on each turbine. (Basis: Cumulative Increase)
7. To demonstrate initial compliance with parts 3, 4, and 5, above, the owner or operator shall, within 60 days of initial startup and annually thereafter perform a District-approved compliance source test at multiple loads as specified in 40 CFR 60.335, as applicable. The sample port design and locations shall be approved by the District Source Test Section prior to installation. The annual test shall be performed at a frequency of no sooner than 9 months and no later than 12 months after the previous source test. The annual source test shall be used to determine the following:
 - a. Digester gas flow rate to each turbine (dry basis).
 - b. Digester gas concentrations (dry basis) of carbon dioxide (CO₂), methane, total non-methane organic compounds (NMOC).
 - c. Exhaust gas flow rate from each gas turbine (dry basis).
 - d. Exhaust gas concentrations (dry basis) of NO_x, CO, NMOC, and O₂ in the stack gas.

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

VI. Permit Conditions

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

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

9. The owner or operator shall sample, test, and record the digester gas BTU content at least one time per calendar week during turbine operation. If 6 months of data testing indicates digester gas BTU content is within plus or minus 5% of the average, the sampling/testing frequency may be decreased to one time per calendar month, with successive monthly sample dates at least 2 weeks apart. (Basis: Cumulative Increase)
10. The owner or operator shall maintain records and provide all the data necessary to demonstrate compliance with the above parts, including the following information. (Basis: Regulation 1-441)
- a. Monthly records of the quantity of digester gas (thousand scf) burned at each turbine.
 - b. Monthly records of the total thermal input in BTU.
 - c. Records of all NO_x and CO measurements (ppmvd, at 15% oxygen, and calculated lb/yr, as applicable) as well as all annual source test results.
 - d. All records shall be retained onsite for five years from the date of entry, and made available for inspection by District staff upon request.

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

VII. APPLICABLE EMISSION LIMITS & COMPLIANCE MONITORING REQUIREMENTS

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

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

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-8-302.1 SIP 9-8-302.1	Y		140 ppmv @ 15% O2, dry	BAAQMD Cond. 20651, part 19	P/A	Source test
	BAAQMD 9-8-302.1	N	1/1/2012	70 ppmv @ 15% O2, dry	BAAQMD Cond. 20651, part 19	P/A	Source test
	BAAQMD Condition 20651; part 10	Y		140 ppmv @ 15% O2, dry	BAAQMD Cond. 20651, part 19	P/A	Source test
CO	BAAQMD 9-8-302.3 SIP 9-8-302.3	Y		2000 ppmv @ 15% O2, dry	BAAQMD Cond. 20651, part 19	P/A	Source test
	BAAQMD Condition 20651, part 11	Y		2000 ppmv @ 15% O2, dry	BAAQMD Cond. 20651, part 19	P/A	Source test

VII. Applicable Emission Limits & Compliance Monitoring Requirements

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	SIP 9-1-301	Y		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours	None	N	N
	SIP 9-1-302	Y		300 ppm (dry)	BAAQMD Cond. 18860, part 4	P/W or M	Sulfur Content Testing
	SIP 9-1-304	Y		Sulfur content of fuel <0.5% by weight	BAAQMD Cond. 20651, part 17	P/E	Sulfur certifications or analysis
Opacity	BAAQMD 6-1-303 SIP 6-303	Y		> Ringelmann 2.0 for no more than 3 min in any hour		N	
FP	BAAQMD 6-310	Y		0.15 gr/dscf		N	
POC	BAAQMD 8-2-301 SIP 8-2-301	Y		≤ 15 lb/day or ≤ 300 ppm total carbon concentration	N	N	N
Fuel Input, Combined to S-37, 38, 39	BAAQMD Condition 20651, part 15	Y		150,000 gallons in any rolling 365 day period	BAAQMD Cond. 20651, part 18	P/D	Records
Thermal Throughput	BAAQMD Condition 20651, part 13	Y		19.8 MM Btu/hr per engine	BAAQMD Cond. 20651, part 18	P/D	Records
Hours of Operation, S-37, 38, 39 Combined	BAAQMD Condition 20651, part 14	Y		25,316 hours in any rolling 365 day period	BAAQMD Cond. 20651, part 18	P/D	Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-8-302.1 SIP 9-8-302.1	Y		140 ppmv @ 15% O2, dry	BAAQMD Cond. 20651, part 19	P/A	Source test
	BAAQMD Regulation 9-8-302.1	N	1/1/2012	70 ppmv @ 15% O2, dry	BAAQMD Cond. 20651, part 19	P/A	Source test
	BAAQMD Condition 20651, part 6	Y		1.25 g/bhp-hr	BAAQMD Cond. 20651, part 19	P/A	Source test
CO	BAAQMD 9-8-302.3 SIP 9-8-302.3	Y		2000 ppmv @ 15% O2, dry	BAAQMD Cond. 20651, part 19	P/A	Source test
	BAAQMD Condition 20651, part 8	Y		3.0 g/bhp-hr	BAAQMD Cond. 20651, part 19	P/A	Source test
SO2	SIP 9-1-301	Y		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours	None	N	
	SIP 9-1-302	Y		300 ppm (dry)	None	N	
	SIP 9-1-304	Y		Sulfur content of liquid fuel <0.5% by weight	BAAQMD Cond. 20651, part 17	P/E	Sulfur certifications or analysis
	BAAQMD Condition 20651, Part 16	Y		Sulfur content of gaseous fuel, 340 (max) ppm at 0% O2	BAAQMD Cond. 20651, Part 16	P/W	Sulfur Content Testing
	BAAQMD Condition 20651, part 17	Y		Sulfur content of diesel fuel <0.05% by weight	BAAQMD Cond. 20651, part 17	N	Statement of Fuel Sulfur Content or CARB Diesel Equivalent

VII. Applicable Emission Limits & Compliance Monitoring Requirements

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

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

VII. Applicable Emission Limits & Compliance Monitoring Requirements

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-2-301 SIP 8-2-301	Y		≤ 15 lb/day or ≤ 300 ppm total carbon concentration	None	N	

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-7-301.10	Y		Equipment certified to recover 98% of gasoline vapors during tank filling	None	N	
	BAAQMD 8-7-302.8			Liquid removal devices to achieve a minimum liquid removal rate of 5 ml per gallon dispensed	None	N	
	BAAQMD Condition #21663	Y		Gasoline throughput shall not exceed 334,000 gallons per year	8-7-503.1	P/A	Records
	BAAQMD Condition 16516	Y		Annual pressure decay (ST-38) test	8-7-407	P/A	Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

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

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

VII. Applicable Emission Limits & Compliance Monitoring Requirements

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Diesel Sulfur Content	SIP 9-1-304	N		0.5% by weight		N	
Diesel Sulfur Content	BAAQMD Condition 19040, part 4, CCR Title 17 93115.5(b)	N		CARB Diesel (or equivalent)	BAAQMD Cond. 19040, part 4 CCR Title 17 93115.10(g) (G)(1)	P/M	Vendor fuel certification, Monthly records
Opacity	BAAQMD 6-1-303 SIP 6-303	Y		>Ringelmann 2.0 for no more than 3 min in any hour		N	
FP	BAAQMD 6-1-310 SIP 6-310	Y		0.15 gr/dscf		N	
Hours of Operation	BAAQMD Condition 19040, part 1 CCR Title 17 93115.6(b) (3)(A)(1)(a)			reliability-related activities not to exceed 20 hours in any consecutive 12-month period	BAAQMD Cond. 19040, parts 5,6 CCR Title 17 93115.10(e)(1)	P/M	Hour meter, Monthly records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Diesel Sulfur Content	SIP 9-1-304	Y		0.5% by weight		N	
Diesel Sulfur Content	BAAQMD Condition 24733, part 4, CCR Title 17 93115.5(b)	N		CARB Diesel (or equivalent)	BAAQMD Cond. 24733, part 4 CCR Title 17 93115.10(g) (G)(1)	P/M	Vendor fuel certification, Monthly records
Opacity	BAAQMD 6-1-303 SIP 6-303	Y		>Ringelmann 2.0 for no more than 3 min in any hour		N	
FP	BAAQMD 6-1-310 SIP 6-310	Y		0.15 gr/dscf		N	
Hours of Operation	BAAQMD Condition 24733, part 1 CCR Title 17 93115.6(b) (3)(A) (2)(b)			reliability-related activities not to exceed 50 hours in any consecutive 12-month period	BAAQMD Cond. 24733, parts 5,6 CCR Title 17 93115.10(e)(1)	P/M	Hour meter, Monthly records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-7-301.1 SIP 9-7-301.1	Y		30 ppm @3% O ₂	BAAQMD 9-7-403 SIP 9-7-403	N	Initial source test
	BAAQMD Condition 20651, part 5	Y		30 ppm @3% O ₂	BAAQMD Cond. 20651, part 19	P/A	Source test
	BAAQMD 9-7-307.7	N	1/1/2012	30 ppm @3% O ₂	N	N	N
CO	BAAQMD 9-7-301.2 SIP 9-7-301.2	Y		400 ppm @3% O ₂	BAAQMD 9-7-403 SIP 9-7-403	N	Initial source test
	BAAQMD 9-7-307.7	N	1/1/2012	400 ppm @3% O ₂	N	N	N
	BAAQMD Condition 20651, part 5	Y		50 ppm @3% O ₂	BAAQMD Cond. 20651, part 19	P/A	Source test
SO ₂	SIP 9-1-301	Y		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours	None	N	N
	SIP 9-1-302	Y		300 ppm (dry)	BAAQMD Cond. 18860, part 4	P/W	Fuel Sulfur Content
Opacity	BAAQMD 6-1-301 SIP 6-301	Y		> Ringelmann 1.0 for no more than 3 min in any hour	N	N	N

VII. Applicable Emission Limits & Compliance Monitoring Requirements

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM	BAAQMD 6-1-310 SIP 6-310	Y		0.15 gr/dscf at 6% Oxygen	N	N	N
POC	BAAQMD 8-2-301 SIP 8-2-301	Y		≤ 15 lb/day or ≤ 300 ppm total carbon concentration	N	N	N

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-9-301.1.1 SIP 9-9-301.1	Y		42 ppmv @ 15% O ₂	BAAQMD Regulation 9-9-504	P/A	Source test
	BAAQMD 9-9-301.2	N		2.53 lbs/MW-hr or 50 ppmv @ 15% O ₂	BAAQMD Regulation 9-9-504	P/A	Source test
	BAAQMD Condition 24050, part 3	Y		23 ppmv @ 15% O ₂ , 34,400 lb/yr (excluding startup, shutdown, and commissioning)	BAAQMD Cond. 24050, part 7	P/A	Source test

VII. Applicable Emission Limits & Compliance Monitoring Requirements

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Condition 24050, part 4	Y		100 ppmv @15% O ₂ , 92,200 lb/yr (excluding startup, shutdown, and commissioning)	BAAQMD Cond. 24050, part 7	P/A	Source test
SO ₂	SIP 9-1-301	Y		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours	None	N	N
	SIP 9-1-302	Y		300 ppm (dry)	BAAQMD Cond. 18860, part 4	P/W	Fuel Sulfur Content
	BAAQMD Condition 24050, part 5	Y		150 ppmv @15% O ₂	BAAQMD Cond. 24050, part 7	P/A	Source test
	NSPS Subpart GG, 60.333(a)	Y		0.015% @15% O ₂	NSPS Subpart GG, 60.334(h) and BAAQMD Cond. 18860, part 4	P/W	Fuel Sulfur Content
Opacity	BAAQMD 6-1-301 SIP 6-301	Y		> Ringelmann 1.0 for no more than 3 min in any hour	N	N	N
PM	BAAQMD 6-1-310 SIP 6-310	Y		0.15 gr/dscf at 6% Oxygen	N	N	N
POC	BAAQMD 8-2-301 SIP 8-2-301	Y		≤ 15 lb/day or ≤ 300 ppm total carbon concentration	N	N	N

VII. Applicable Emission Limits & Compliance Monitoring Requirements

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Usage	BAAQMD Condition 24050, part 2	Y		Combined fuel usage (S-55, S-56) $\leq 389,820$ MMBTU/yr	BAAQMD Cond. 24050, part 7, part 9	P/A,W	Digester gas flow rate, BTU content

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

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

VII. Applicable Emission Limits & Compliance Monitoring Requirements

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

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

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

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

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally referenced in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VII - Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-303	Ringelmann No. 2 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate
BAAQMD 8-2-301	Miscellaneous Operation	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling or EPA Method 25 or 25A
BAAQMD 8-7-301.2	Gasoline Vapor Recovery	BAAQMD Manual of Procedures, Volume IV, ST-36
BAAQMD 8-7-302.8	Gasoline Vapor Recovery-Phase II - Liquid Removal Requirements	Manual of Procedures, Volume IV, ST-37, GDF Liquid Removal Devices
BAAQMD 9-1-302	General Emission Limitation (SO ₂)	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides, Integrated Sample
BAAQMD 9-1-304	Fuel Sulfur Content	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oil
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

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 9-9-301	NOx Emissions Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling For compliance with output based emissions standards, see procedure in BAAQMD Regulation 9-9-605.
BAAQMD 9-9-604	Determination of HHV and LHV (gaseous fuels)	ASTM 1826-88 or ASTM 1945-81 in conjunction with ASTM D3588-89
NSPS 40 CFR 60.333(a,b)	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
BAAQMD Cond 18860, Part 3	Digester Gas Total Sulfur	Manual of Procedures, Volume III, Method 44 or ASTM Method D5504
BAAQMD Cond 20651 Part 5	NOx and CO Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond 20651 Part 6	NOx Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond 20651 Part 8	CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond 20651 Part 10	NOx Limits	BAAQMD MOP Volume IV, ST-13A Oxides of Nitrogen, Continuous Sampling, and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond 20651 Part 11	CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond 24050 Part 3	NOx Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond 24050 Part 4	CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD	SO2 Limits	ASTM D 1072-80, Standard Method for Total Sulfur in Fuel

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
Cond 24050 Part 5		Gases ASTM D 3031-81, Standard Test Method for Total Sulfur in Natural Gas by Hydrogenation

IX. PERMIT SHIELD

Not applicable

X. REVISION HISTORY

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

XI. GLOSSARY

ACT

Federal Clean Air Act

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

Basis

The underlying authority which allows the District to impose requirements.

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CEQA

California Environmental Quality Act

CFR

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

CO

Carbon Monoxide

Cumulative Increase

The sum of permitted emissions from each new or modified source since a specified date 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

EPA

The federal Environmental Protection Agency.

Excluded

Not subject to any District Regulations.

FE, Federally Enforceable,

XI. Glossary

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.

GLC

Ground Level Concentration

HAP

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by 40 CFR Part 63.

Major Facility

A facility with potential emissions of 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.

MFR

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

MOP

The District's Manual of Procedures.

NAAQS

National Ambient Air Quality Standards

NESHAPs

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

NMHC

Non-methane Hydrocarbons

NO_x

Oxides of nitrogen.

NSPS

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

XI. Glossary

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.)

Offset Requirement

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

Phase II Acid Rain Facility

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

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.

RMP

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

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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

Sulfur dioxide

THC

Total Hydrocarbons (NMHC + Methane)

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

VOC

Volatile Organic Compounds

Units of Measure:

bhp	=	brake-horsepower
Btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m ²	=	square meter
min	=	minute

XI. Glossary

MM	=	million
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
yr	=	year