

Bay Area Air Quality Management District

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

Proposed

MAJOR FACILITY REVIEW PERMIT

Issued To:

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

Facility Address:

2020 Wake Avenue
Oakland, CA 94607

Mailing Address:

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

Responsible Official

David R. Williams
(510) 287-1663

Facility Contact

Kurt Haunschild
(510) 287-1407

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

BAAQMD Engineering Division Contact
Randy Frazier

Primary SIC: 4952

Product: Treated Municipal Wastewater

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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

Date

TABLE OF CONTENTS

I.	STANDARD CONDITIONS	3
II.	EQUIPMENT	8
III.	GENERALLY APPLICABLE REQUIREMENTS	11
IV.	SOURCE-SPECIFIC APPLICABLE REQUIREMENTS	14
V.	SCHEDULE OF COMPLIANCE	33
VI.	PERMIT CONDITIONS	33
VII.	APPLICABLE EMISSION LIMITS & COMPLIANCE MONITORING REQUIREMENTS	55
VIII.	TEST METHODS	69
IX.	PERMIT SHIELD	72
X.	REVISION HISTORY	73
XI.	GLOSSARY	74

I. STANDARD CONDITIONS

A. Administrative Requirements

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

BAAQMD Regulation 1 - General Provisions and Definitions
(as amended by the District Board on ~~5/02/01~~~~5/17/00~~);

SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through ~~6/288/27/99~~);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on ~~8/1/01~~~~5/17/00~~);

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 5/17/00);

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 5/17/00),

SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through ~~1/262/25/99~~), and

BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on ~~4/16/03~~~~10/20/99~~).

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

1. This Major Facility Review Permit was issued on [] and expires on [when issued, enter 5th anniversary of issue date]. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than [when issued, enter date 6 months prior to permit expiration date] and no earlier than [when issued, enter date 12 months prior to expiration date]. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after** [when issued, enter 5th anniversary of issue date]. If the permit renewal has not been issued by [], but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or

I. Standard Conditions

- 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, nor 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. (MOP Volume II, Part 3, §4.11)
 12. The permit holder is responsible for compliance, and certification of compliance, with all conditions of the permit, regardless whether it acts through employees, agents, contractors, or subcontractors. (Regulation 2-6-307)

C. Requirement to Pay Fees

I. Standard Conditions

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 ~~of each year~~. The certification shall be submitted by July 31st of each year. The certification must

I. Standard Conditions

list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification should be sent to the Environmental Protection Agency at the following address:

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

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

H. Emergency Provisions

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. 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 ~~caused by conditions beyond the permit holder's reasonable control~~ 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. ~~Any variance granted by the Hearing Board from any term or condition of this permit which lasts longer than 90 days will be subject to EPA approval.~~ (MOP Volume II, Part 3, §4.8)
3. ~~Notwithstanding the foregoing,~~ 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

1. The maximum capacity for each source as shown in Table II-A is the maximum

I. Standard Conditions

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)

J. ~~Accidental Release~~

~~— This facility is subject to 40 CFR Part 68, Chemical Accident Prevention Provisions. The permit holder shall submit a risk management plan (RMP) by the date specified in §68.10. The permit holder shall also certify compliance with the requirements of Part 68 as part of the annual compliance certification, as required by Regulation 2, Rule 6. (40 CFR Part 68, Regulation 2, Rule 6)~~

II. EQUIPMENT LIST

A. Permitted Source List

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2-1-302.

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-3	Hot Water Boiler (distillate oil, digester gas)	unknown	unknown	9.96 MM Btu/hr
S-4	Hot Water Boiler (distillate oil, digester gas)	unknown	unknown	9.96 MM Btu/hr
S-5	Hot Water Boiler (distillate oil, digester gas)	unknown	unknown	9.96 MM Btu/hr
S-6	Hot Water Boiler (distillate oil, digester gas)	unknown	unknown	9.96 MM Btu/hr
S-37	<u>Multi-Fuel Cogeneration Engine #1, Diesel Fuel/Digester Gas/Natural Gas Fired Engine</u>	DeLaval/Cooper	DGSR-46	10.965 19.8 MM Btu/hr, <u>28,600 cu in displacement</u>
S-38	<u>Multi-Fuel Cogeneration Engine #2 Diesel Fuel/Digester Gas/Natural Gas Fired Engine</u>	DeLaval/Cooper	DGSR-46	10.965 19.8 MM Btu/hr, <u>28,600 cu in displacement</u>
S-39	<u>Multi-Fuel Cogeneration Engine #3 Diesel Fuel/Digester Gas/Natural Gas Fired Engine</u>	DeLaval/Cooper	DGSR-46	10.965 19.8 MM Btu/hr, <u>28,600 cu in displacement</u>
S-42	<u>Aerosol Can Painting Operation</u>	Custom	N/A	N/A
S-43	Wet Weather Primary Sludge Thickeners (2)	Custom	Custom	N/A
S-44	<u>Chlorination Building</u>	Custom	N/A	N/A
S-45	Aerated Grit Tanks (8)	Custom	N/A	N/A
S-46	<u>Influent Pump Station</u>	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	4000-3000 gallon tank; <u>one gasoline dispensing nozzle</u>
S-49	<u>Diesel Engine Backup Generator, Portable</u>	<u>Allis Chalmers</u>	<u>3500</u> <u>MK11</u>	<u>134 HP</u>

II. Equipment List

~~B. Abatement Device List~~

Table II-A - Permitted Sources

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

S-#	Description	Make or Type	Model	Capacity
S-50	<u>Diesel Engine Backup Generator</u>	<u>Detroit Diesel</u>	<u>10437316</u>	<u>238 HP</u>
S-51	<u>Diesel Engine Backup Generator</u>	<u>Generac</u>	<u>440FER82</u> <u>12 GGW</u>	<u>268 HP</u>
S-52	<u>Diesel Engine Backup Generator</u>	<u>Generac</u>	<u>unknown</u>	<u>280 HP</u>
S-53	<u>Diesel Engine Backup Generator</u>	<u>Cummins</u>	<u>6CTA8.3-G</u>	<u>277 HP</u>
S-100	Wastewater Treatment Plant- Fugitive Emissions	Custom	A3003/ A3005	N/A
S-110	Preliminary Treatment <u>Headworks, IPS, Barscreens</u>	Custom	N/A	N/A
S-120	<u>Primary Treatment; 16</u> <u>Sedimentation Tanks</u>	Custom	N/A	N/A
S-130	<u>Secondary Treatment; 8 HPO</u> <u>Activated Sludge Units</u>	Custom	N/A	N/A
S-140	<u>Secondary Clarifiers; 12</u> <u>Clarifiers</u>	Custom	N/A	N/A
S-150	Tertiary Treatment	Custom	N/A	N/A
S-160	<u>Disinfection; Chlorination</u> <u>Contact Tanks, Non-ducted,</u> <u>Effluent</u>	Custom	N/A	N/A
S-170	<u>Sludge Handling; 3 WAS</u> <u>GBTs; 4 Dewatering</u> <u>Centrifuges; WAS Thickener</u>	Custom	N/A	N/A
S-171	Sludge Handling GBT 11 east	Custom	N/A	1095 gpm
S-172	Sludge Handling GBT 12 center	Custom	N/A	1095 gpm
S-173	Sludge Handling GBT 13 west	Custom	N/A	1095 gpm
S-180	<u>Anaerobic Digesters (11); 10</u> <u>Floating Cover, 1 Dyster Unit</u>	Custom	N/A	N/A

II. Equipment List

~~B. Abatement Device List~~

~~B. Abatement Device List~~

Table II-B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Required Efficiency
A-4	Chlorine (Emergency) Scrubber	S-44	BAAQMD Reg 1-301		N/A
A-7	Atomized Mist Scrubber	S-170, S-184	BAAQMD Reg 1-301	<5 odor complaints per month None Listed	N/A
A-190	Digester Gas Flare, <u>10.5 MM Btu/hr</u>	S-180	BAAQMD Reg 1-301, <u>8-2-301</u>	<u>None Listed</u>	<u>N/A < 15 lb/day & 300 ppm C</u>
A-191	Digester Gas Flare, <u>10.5 MM Btu/hr</u>	S-180	BAAQMD Reg 1-301, <u>8-2-301</u>	<u>None Listed</u>	<u>N/A < 15 lb/day & 300 ppm C</u>
A-192	Digester Gas Flare, <u>10.5 MM Btu/hr</u>	S-180	BAAQMD Reg 1-301, <u>8-2-301</u>	<u>None Listed</u>	<u>N/A < 15 lb/day & 300 ppm C</u>
A-193	Digester Gas Flare, <u>10.5 MM Btu/hr</u>	S-180	BAAQMD Reg 1-301, <u>8-2-301</u>	<u>None Listed</u>	<u>N/A < 15 lb/day & 300 ppm C</u>
A-461	Carbon Bed Scrubber	S-110	BAAQMD Reg 1-301	<5 odor complaints per month None Listed	N/A
A-462	Carbon Bed Scrubber	S-110	BAAQMD Reg 1-301	<5 odor complaints per month None Listed	N/A

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 ~~would~~ 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 ~~parenthesis~~ 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://yosemite1.epa.gov/r9/r9sips.nsf/California?ReadForm&Start=1&Count=30&Expand=3.1>.

~~The full language of SIP requirements is included in Appendix A of this permit if the SIP requirement is different from the current BAAQMD requirement.~~

NOTE:

There are differences between the current BAAQMD rules and the version of the rules in the SIP. For specific information, contact the District's Rule Development Section of the Enforcement Division. All sources must comply with both versions of the rule until US EPA has reviewed and approved the District's revision of the regulation.

III. General Applicable Requirements

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 (5/2/015/47/00)	N
SIP Regulation 1	General Provisions and Definitions (6/288/27/99)	Y
<u>BAAQMD Regulation 2, Rule 1</u>	<u>General Requirements (12/21/04)</u>	<u>N</u>
<u>BAAQMD 2-1-429</u>	<u>Federal Emissions Statement (6/7/95)</u>	<u>Y</u>
<u>SIP Regulation 2, Rule 1</u>	<u>General Requirements (8/276/99)</u>	<u>Y</u>
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 (4/2/94 3/6/02)	N
<u>SIP Regulation 5</u>	<u>Opening Burning (9/4/98)</u>	<u>Y</u>
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	NY
BAAQMD Regulation 7	Odororous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (6/15/94)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/21/01+2/20/95)	Y
<u>BAAQMD Regulation 8, Rule 4</u>	<u>Organic Compounds – General Solvent and Surface Coating Operations (10/16/02)</u>	<u>Y</u>
<u>BAAQMD Regulation 8, Rule 40</u>	<u>Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (12/15/99)</u>	<u>Y</u>
<u>BAAQMD Regulation 8, Rule 47</u>	<u>Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (6/15/94)</u>	<u>Y</u>
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 (4/2/95 7/12/02)	N
<u>SIP Regulation 8, Rule 51</u>	<u>Organic Compounds - Adhesive and Sealant Products (2/26/02)</u>	<u>Y</u>
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide	Y

III. General Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	FE Federally Enforceable (Y/N)
	(3/15/95)	
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 (12/4/91)	Y
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
<u>California Health and Safety Code Section 41750 et seq.</u>	<u>Portable Equipment</u>	<u>N</u>
<u>California Health and Safety Code Section 44300 et seq.</u>	<u>Air Toxics "Hot Spots" Information and Assessment Act of 1987</u>	<u>N</u>
<u>40 CFR Part 61, Subpart M</u>	<u>National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (6/19/95)</u>	<u>Y</u>

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://yosemite1.epa.gov/r9/r9sips.nsf/California?ReadForm&Start=1&Count=30&Expand=3.1>. ~~The full language of SIP requirements is included in Appendix A of this permit if the SIP requirements are different from the current BAAQMD requirements.~~ All other text may be found in the regulations themselves.

Table IV-A
Source Specific Applicable Requirements
S-3, S-4, S-5, S-6 Hot Water Boilers

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 6</u>	<u>Particulate Matter and Visible Emissions (12/19/90)</u>		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-305</u>	<u>Visible Particulates</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-310.3</u>	<u>Particulate Concentration Correction to 6% Oxygen, Dry</u>	<u>Y</u>	
<u>BAAQMD Regulation 8, Rule 2</u>	<u>Organic Compounds, Miscellaneous Operations (6/15/94)</u>		
<u>8-2-301</u>	<u>Limitations on Total Carbon Emissions</u>	<u>Y</u>	
<u>BAAQMD</u>			

IV. Source-Specific Applicable Requirements

Table IV-A
Source Specific Applicable Requirements
S-3, S-4, S-5, S-6 Hot Water Boilers

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>Regulation 9, Rule 1</u>	<u>Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)</u>		
9-1-301	<u>Limitations on Ground Level Concentrations</u>	Y	
9-1-302	<u>General Emission Limitations</u>	Y	
9-1-304	<u>Fuel Burning (Liquid and Solid Fuels)</u>	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 (9/16/92)		
9-7-304	Low Fuel Usage Requirements	Y	
9-7-304.2	Operating Standard, Tuning	Y	
9-7-306	Equipment Testing - Non-Gaseous Fuel	Y	
9-7-306.1	— Performance Standard, NO_x	Y	
9-7-306.2	— Performance Standard, CO	Y	
9-7-306.3	— Operating Standard, Equipment Testing	Y	
9-7-502	Modified Maximum Heat Input	Y	
9-7-503	Records	Y	
9-7-503.1	§304.2 Records of tune-ups	Y	
9-7-503.3	— §306.3 Records	Y	
9-7-603	Compliance Determination	Y	
9-7-604	Tune-Up Procedures	Y	
BAAQMD Cond #278			
part 4	To be operated on standby basis (Basis: Cumulative Increase)	Y	
part 5	Maximum Alternate Operation: 1 Boiler operated with 1 Engine (Basis: Cumulative Increase)	Y	
part 6	Each boiler S-5 limited to less than 90,000 therms/yr (Basis: Regulation 9-7-111)	Y	
part 7	Boiler usage records (Basis: BAAQMD Regulation 2-6-501)	Y	
part 10	Annual boiler tune up (Basis: BAAQMD Regulation 9-7-304)	Y	
part 11	Boiler tune up records (Basis: BAAQMD Regulation 9-7-503.1)	Y	
<u>BAAQMD Cond 20651</u>			

IV. Source-Specific Applicable Requirements

Table IV-A
Source Specific Applicable Requirements
S-3, S-4, S-5, S-6 Hot Water Boilers

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>Part 1</u>	<u>Allowable fuel Type (9-7-304)</u>	<u>Y</u>	
<u>Part 2</u>	<u>Maximum Allowable Operation: S-5 Boiler operated simultaneously with 2 Engines (Cumulative Increase)</u>	<u>Y</u>	
<u>Part 3</u>	<u>Thermal Capacity Limitation (9-7-304)</u>	<u>Y</u>	
<u>Part 4</u>	<u>Annual Tune Up Requirement (9-7-304.2);</u>	<u>Y</u>	
<u>Part 5</u>	<u>Boiler Tune Up Records (9-7-503.1)</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

Table IV-B
Source Specific Applicable Requirements
~~S-37 Diesel Multi-Fuel Cogeneration Engine Generator #1 Station~~
~~S-38 Diesel Engine Generator Station~~
~~S-39 Diesel Multi-Fuel Cogeneration Engine Generator #3 Station~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 6</u>			
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-305</u>	<u>Visible Particulates</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-310.3</u>	<u>Particulate concentration corrected to 6% oxygen, dry basis</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>BAAQMD Regulation 8, Rule 2</u>	<u>Organic Compounds, Miscellaneous Operations (6/15/94)</u>		
<u>8-2-301</u>	<u>Limitations on Total Carbon Emissions</u>	<u>Y</u>	
<u>BAAQMD Regulation 9, Rule 1</u>	<u>Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)</u>		
<u>9-1-301</u>	<u>Limitations on Ground Level Concentrations</u>	<u>Y</u>	
<u>9-1-302</u>	<u>General Emission Limitations</u>	<u>Y</u>	
<u>9-1-304</u>	<u>Fuel Burning (Liquid and Solid Fuels)</u>	<u>Y</u>	
<u>BAAQMD Regulation 9, Rule 8</u>	<u>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (4/20/938/1/01)</u>		
<u>9-8-302</u>	<u>Emission Limits – Waste Derived Fuel Gas</u>	<u>Y</u>	
<u>9-8-302.1</u>	<u>NOx Limits for Lean Burn Engines</u>	<u>Y</u>	
<u>9-8-302.3</u>	<u>CO Limits</u>	<u>Y</u>	
<u>BAAQMD Cond #278</u>			
<u>part 1</u>	<u>NOx Limit (Basis: BAAQMD Regulation 9-8-302)</u>	<u>Y</u>	
<u>part 2</u>	<u>CO Limit (Basis: BAAQMD Regulation 9-8-302)</u>	<u>Y</u>	
<u>part 3</u>	<u>Total Diesel Fuel Usage (Basis: Cumulative Increase)</u>	<u>Y</u>	
<u>part 5</u>	<u>Maximum Operation: 2 of 3 Engines or 1 Engine with 1 Boiler</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

Table IV-B
Source Specific Applicable Requirements
S-37 Diesel ~~Multi-Fuel Cogeneration~~ Engine Generator#1 Station
S-38 Diesel Engine Generator Station
S-39 Diesel ~~Multi-Fuel Cogeneration~~ Engine Generator #3Station

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	(Basis: Cumulative Increase)		
part 7	Operation, Usage, and Consumption Records (Basis: Cumulative Increase, BAAQMD Regulation 2-6-501)	Y	
part 8	Periodic Monitoring for Engines (Basis: BAAQMD Regulation 2-6-409.2)	Y	
part 9	Vendor certifications of sulfur content or lab analyses and record maintenance (Basis: BAAQMD Regulation 2-6-409.2, 2-6-501)	Y	
Cond 20651			
<u>Part 10</u>	<u>NOx Limit (9-8-302)</u>	<u>N</u>	
<u>Part 11</u>	<u>CO Limit (9-8-302)</u>	<u>N</u>	
<u>Part 12</u>	<u>Allowable Fuel: Digester Gas and/or Natural Gas with Diesel Pilot (Cumulative Increase)</u>	<u>Y</u>	
<u>Part 13</u>	<u>Thermal Capacity Limitation (Cumulative Increase)</u>	<u>Y</u>	
<u>Part 14</u>	<u>Annual Hours of Operation (Cumulative Increase)</u>	<u>Y</u>	
<u>Part 15</u>	<u>Diesel Throughput Limitation (Cumulative Increase)</u>	<u>Y</u>	
<u>Part 17</u>	<u>Diesel Fuel Sulfur Content Limitation (BACT)</u>	<u>Y</u>	
<u>Part 18</u>	<u>Recordkeeping (2-6-409.2, 2-6-501)</u>	<u>Y</u>	
<u>Part 19</u>	<u>Annual Performance Test Requirement (2-6-409.2)</u>	<u>Y</u>	
<u>Part 20</u>	<u>Records Retention (2-6-409)</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

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

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 6</u>			
6-301	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
6-305	<u>Visible Particulates</u>	<u>Y</u>	
6-310	<u>Particulate Weight Limitation</u>	<u>Y</u>	
6-310.3	<u>Particulate concentration corrected to 6% oxygen, dry basis</u>	<u>Y</u>	
6-401	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>BAAQMD Regulation 8, Rule 2</u>	<u>Organic Compounds, Miscellaneous Operations (6/15/94)</u>		
8-2-301	<u>Limitations on Total Carbon Emissions</u>	<u>Y</u>	
<u>BAAQMD Regulation 9, Rule 1</u>	<u>Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)</u>		
9-1-301	<u>Limitations on Ground Level Concentrations</u>	<u>Y</u>	
9-1-302	<u>General Emission Limitations</u>	<u>Y</u>	
9-1-304	<u>Fuel Burning (Liquid and Solid Fuels)</u>	<u>Y</u>	
<u>BAAQMD Regulation 9, Rule 8</u>	<u>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/93)</u>		
9-8-302	<u>Emission Limits – Waste Derived Fuel Gas</u>	<u>N</u>	
9-8-302.1	<u>NOx Limits for Lean Burn Engines</u>	<u>N</u>	
9-8-302.3	<u>CO Limits</u>	<u>N</u>	
<u>Cond 20651</u>			
Part 6	<u>NOx Limits (BACT)</u>	<u>Y</u>	
Part 7	<u>POC Limits (BACT)</u>	<u>Y</u>	
Part 8	<u>CO Limits (BACT)</u>	<u>Y</u>	
Part 9	<u>Filterable PM Limits (BACT)</u>	<u>Y</u>	
Part 12	<u>Allowable Fuel: Digester Gas and/or Natural Gas with Diesel Pilot (Cumulative Increase)</u>	<u>Y</u>	
Part 13	<u>Thermal Capacity Limitation (Cumulative Increase)</u>	<u>Y</u>	
Part 14	<u>Annual Hours of Operation (Cumulative Increase)</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

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

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
Part 15	Diesel Throughput Limitation (Cumulative Increase)	Y	
Part 16	Gaseous Fuel Sulfide Limitation (BACT)	Y	
Part 17	Diesel Fuel Sulfur Content Limitation (BACT)	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-C
S-42 Aerosol Can Painting Operation

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
BAAQMD Regulation 8, Rule 49	Organic Compounds – Aerosol Paint Products (1/19/94)		
8-49-301	VOC Content Limits	Y	
8-49-302	Prohibition of Non-Intended Use	Y	
8-49-303	Multi-component VOC Limitation	Y	
BAAQMD Cond # 911			
part 1	Maintain Listing of Coatings, Thinners, Solvents Being Used (Basis: Cumulative Increase)	Y	
part 2	Maintain Monthly Records with Type, Amount of Coatings (Basis: Cumulative Increase)	Y	
part 3	Retain Records, Make Available for APCO Inspection (Basis: Cumulative Increase, BAAQMD Regulation 2-6-501)	Y	
part 4	Maximum Usage of Coatings, Thinners, Solvents (Basis: Cumulative Increase)	Y	

IV. Source-Specific Applicable Requirements

Table IV-D
Source Specific Applicable Requirements
S-43 Wet Weather Primary Sludge Thickeners
~~S-44 Chlorination Building~~, S-45 Aerated Grit Building,
~~S-46 Influent Pump Station~~, and 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 (6/15/94)		
8-2-301	Miscellaneous Operations Standards	Y	
BAAQMD Cond #2409			
part 1	Consequences of Odor Complaints (Basis: BAAQMD Regulation 2-1-403)	N	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 8, Rule 5</u>	<u>Organic Compounds – Storage of Organic Liquids (11/27/2002)</u>		
8-5-301	<u>Storage Tank Control Requirements</u>	<u>Y</u>	
8-5-302	<u>Requirements for Pressure Vacuum Valves</u>	<u>Y</u>	
8-5-306	<u>Requirements for Approved Emission Control Systems</u>	<u>Y</u>	
8-5-403	<u>Inspection Requirements for Pressure Vacuum Valves</u>	<u>Y</u>	
8-5-404	<u>[Pressure Vacuum Valves] Certification</u>	<u>Y</u>	
8-5-605	<u>Pressure-Vacuum Valve Gas Tight Determination</u>	<u>Y</u>	
BAAQMD Regulation 8, Rule 7	Organic Compounds - Gasoline Dispensing Facilities (6/1/94 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	

IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-7-301.3	Submerged Fill Pipes	Y	
8-7-301.4	P-V Valves on All Open Vent 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	
<u>8-7-301.8</u>	<u>Coaxial Phase I Prohibition</u>	<u>Y</u>	
<u>8-7-301.9</u>	<u>Swivel Adaptors</u>	<u>Y</u>	
<u>8-7-301.10</u>	<u>98% Phase I Vapor Recovery Efficiency</u>	<u>Y</u>	<u>2009</u>
<u>8-7-301.12</u>	<u>Vapor Spill Box Drain Valve Prohibition</u>	<u>Y</u>	
<u>8-7-301.13</u>	<u>Annual Vapor Tightness Testing</u>	<u>Y</u>	
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	
<u>8-7-302.6</u>	<u>Nozzle Insertion Interlocks</u>	<u>Y</u>	
<u>8-7-302.7</u>	<u>Nozzle Vapor Check Valves</u>	<u>Y</u>	
<u>8-7-302.8</u>	<u>Liquid Removal Devices</u>	<u>Y</u>	
<u>8-7-302.9</u>	<u>Coaxial Hoses</u>	<u>Y</u>	
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	Y	
8-7-306	Prohibition of Use	Y	
8-7-307	Posting of Operating Instructions	Y	
8-7-308	Operating Practices	Y	
8-7-309	Contingent Vapor Recovery Requirements	Y	
<u>8-7-313</u>	<u>New and Modified Phase II Installations</u>	<u>Y</u>	<u>2009</u>
<u>8-7-316</u>	<u>Pressure Vacuum Valves, Aboveground Storage Tanks</u>	<u>Y</u>	
8-7-404	Certification of New Installations	Y	
<u>8-7-407</u>	<u>Periodic Testing Requirements</u>	<u>Y</u>	
<u>8-7-408</u>	<u>Periodic Testing Notification and Submission Requirements</u>	<u>Y</u>	
8-7-501	Burden of Proof	Y	

IV. Source-Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-7-502	Right of Access	Y	
8-7-503	<u>Record Keeping Requirements</u>	<u>Y</u>	
BAAQMD Cond #7523 <u>21663</u>			
part 1	Throughput limit (Basis: BAAQMD Toxic Policy)	N	
BAAQMD Cond #<u>16516</u>	<u>Annual Pressure Decay (ST-38) Test</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

Table IV-F
Source-specific Applicable Requirements
S-49, DIESEL ENGINE, PORTABLE BUG, ALLIS CHALMERS 3500 MKII, 134 HP

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 2</u>	<u>Permits – General Requirements (8/1/2001)</u>		
<u>2-1-220.1</u>	<u>Portable Equipment; Single Site Time Limit</u>	<u>Y</u>	
<u>BAAQMD Regulation 6</u>	<u>Particulate Matter and Visible Emissions (12/19/90)</u>		
<u>6-303</u>	<u>Ringelmann No. 2 Limitation</u>	<u>Y</u>	
<u>6-305</u>	<u>Visible Particulates</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>BAAQMD Regulation 9, Rule 1</u>	<u>Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)</u>		
<u>9-1-301</u>	<u>Limitations on Ground Level Concentrations</u>	<u>Y</u>	
<u>9-1-304</u>	<u>Fuel Burning (Liquid and Solid Fuels)</u>	<u>Y</u>	
<u>BAAQMD Regulation 9, Rule 8</u>	<u>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/93)</u>		
<u>9-8-110.4</u>	<u>Exemption from 9-8-301, 302, 502 Standards, Emergency Standby Engines</u>	<u>N</u>	
<u>9-8-330</u>	<u>Hours of Operation, Emergency Standby Engines</u>	<u>N</u>	
<u>9-8-331</u>	<u>Hours of Operation, Essential Public Service Standby Engines</u>	<u>N</u>	
<u>9-8-530</u>	<u>Monitoring and Recordkeeping, Emergency Standby Engines</u>	<u>N</u>	
<u>BAAQMD Condition #19058</u>			
<u>Part 1</u>	<u>Eligibility Requirements (2-1-220)</u>	<u>Y</u>	
<u>Part 2</u>	<u>Single Site Operating Hours - Limitation (2-1-220.1)</u>	<u>Y</u>	
<u>Part 3</u>	<u>Noncompliance Reporting (2-1-403)</u>	<u>Y</u>	
<u>Part 4</u>	<u>Limitations on Diesel Fuel Sulfur Content (9-1-304)</u>	<u>Y</u>	
<u>Part 5</u>	<u>Deleted 12-15-04</u>	<u>Y</u>	
<u>Part 6</u>	<u>Public Nuisance (1-301)</u>	<u>Y</u>	
<u>Part 7</u>	<u>Limitation in Operation Near School (2-1-412)</u>	<u>Y</u>	
<u>Part 8</u>	<u>Recordkeeping (1-441, 9-8-530)</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

Table IV-F
Source-specific Applicable Requirements
S-49, DIESEL ENGINE, PORTABLE BUG, ALLIS CHALMERS 3500 MKII, 134 HP

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
Part 9	Reporting (1-441)	Y	

Table IV-G
Source-specific Applicable Requirements
S-50 DIESEL ENGINE BUG, DETROIT DIESEL 1043731616, 238 HP

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 6</u>	<u>Particulate Matter and Visible Emissions (12/19/90)</u>		
6-303	Ringelmann No. 2 Limitation	Y	
6-305	Visible Particulates	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
<u>BAAQMD Regulation 9, Rule 1</u>	<u>Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)</u>		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
<u>BAAQMD Regulation 9, Rule 8</u>	<u>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/93)</u>		
9-8-110.4	Exemption from 9-8-301, 302, 502 Standards, 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	
9-8-530	Monitoring and Recordkeeping, Emergency Standby Engines	N	
<u>BAAQMD Condition #19040</u>			
Part 1	Hours of Operation Unlimited (9-8-331, District Diesel Policy)	Y	

IV. Source-Specific Applicable Requirements

Table IV-G
Source-specific Applicable Requirements
S-50 DIESEL ENGINE BUG, DETROIT DIESEL 1043731616, 238 HP

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
Part 2	Definition of Emergency Use (9-8-231)	<u>Y</u>	
Part 3	Definition of Reliability Related Activities (9-8-232)	<u>Y</u>	
Part 4	Limitations on Diesel Fuel Sulfur Content (9-1-304)	<u>Y</u>	
Part 5	Monitoring (9-8-530)	<u>Y</u>	
Part 6	Recordkeeping (1-441, 9-8-530)	<u>Y</u>	

Table IV-H
Source-specific Applicable Requirements
S-51 DIESEL ENGINE BUG, GENERAC 440FER8212GGW, 268 HP

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 6</u>	<u>Particulate Matter and Visible Emissions (12/19/90)</u>		
6-303	Ringelmann No. 2 Limitation	<u>Y</u>	
6-305	Visible Particulates	<u>Y</u>	
6-310	Particulate Weight Limitation	<u>Y</u>	
6-401	Appearance of Emissions	<u>Y</u>	
<u>BAAQMD Regulation 9, Rule 1</u>	<u>Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)</u>		
9-1-301	Limitations on Ground Level Concentrations	<u>Y</u>	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	<u>Y</u>	
<u>BAAQMD Regulation 9, Rule 8</u>	<u>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/93)</u>		
9-8-110.4	Exemption from 9-8-301, 302, 502 Standards, Emergency Standby Engines	<u>N</u>	
9-8-330	Hours of Operation, Emergency Standby Engines	<u>N</u>	
9-8-331	Hours of Operation, Essential Public Service Standby Engines	<u>N</u>	
9-8-530	Monitoring and Recordkeeping, Emergency Standby Engines	<u>N</u>	

IV. Source-Specific Applicable Requirements

Table IV-H
Source-specific Applicable Requirements
S-51 DIESEL ENGINE BUG, GENERAC 440FER8212GGW, 268 HP

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Condition #21921</u>			
Part 1	Hours of Operation (9-8-331)	<u>Y</u>	
Part 2	Definition of Emergency Conditions (9-8-231)	<u>Y</u>	
Part 3	Definition of Reliability-Related Activities (9-8-232)	<u>Y</u>	
Part 4	Monitoring (9-8-530)	<u>Y</u>	
Part 5	Limitations on Diesel Fuel Sulfur Content (9-1-304)	<u>Y</u>	
Part 6	Recordkeeping (1-441, 9-8-530)	<u>Y</u>	

Table IV-I
Source-specific Applicable Requirements
S-52 DIESEL ENGINE BUG, PORTABLE, GENERAC, 280 HP

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 2</u>	<u>Permits – General Requirements (8/1/2001)</u>		
1-220.1	Portable Equipment: Single Site Time Limit	<u>Y</u>	
<u>BAAQMD Regulation 6</u>	<u>Particulate Matter and Visible Emissions (12/19/90)</u>		
6-303	Ringelmann No. 2 Limitation	<u>Y</u>	
6-305	Visible Particulates	<u>Y</u>	
6-310	Particulate Weight Limitation	<u>Y</u>	
6-401	Appearance of Emissions	<u>Y</u>	
<u>BAAQMD Regulation 9, Rule 1</u>	<u>Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)</u>		
9-1-301	Limitations on Ground Level Concentrations	<u>Y</u>	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	<u>Y</u>	
<u>BAAQMD Regulation 9,</u>	<u>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines</u>		

IV. Source-Specific Applicable Requirements

Table IV-I
Source-specific Applicable Requirements
S-52 DIESEL ENGINE BUG, PORTABLE, GENERAC, 280 HP

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
Rule 8	<u>(1/20/93)</u>		
9-8-110.4	<u>Exemption from 9-8-301, 302, 502 Standards, Emergency Standby Engines</u>	<u>N</u>	
9-8-330	<u>Hours of Operation, Emergency Standby Engines</u>	<u>N</u>	
9-8-331	<u>Hours of Operation, Essential Public Service Standby Engines</u>	<u>N</u>	
9-8-530	<u>Monitoring and Recordkeeping, Emergency Standby Engines</u>	<u>N</u>	
<u>BAAQMD Condition #19184</u>			
<u>Part 1</u>	<u>Eligibility Requirements (2-1-220)</u>	<u>Y</u>	
<u>Part 2</u>	<u>Single Site Operating Hours - Limitation (2-1-220)</u>	<u>Y</u>	
<u>Part 3</u>	<u>Noncompliance Reporting (2-1-403)</u>	<u>Y</u>	
<u>Part 4</u>	<u>Limitations on Diesel Fuel Sulfur Content (9-1-304)</u>	<u>Y</u>	
<u>Part 5</u>	<u>Deleted 12-15-2004</u>	<u>Y</u>	
<u>Part 6</u>	<u>Public Nuisance (1-301)</u>	<u>Y</u>	
<u>Part 7</u>	<u>Limitation in Operation Near School (2-1-412)</u>	<u>Y</u>	
<u>Part 8</u>	<u>Recordkeeping (1-441, 9-8-530)</u>	<u>Y</u>	
<u>Part 9</u>	<u>Reporting (1-441)</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

Table IV-J
Source-specific Applicable Requirements
S-53 DIESEL ENGINE BUG, S/N 44852080, 277 HP

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 6</u>	<u>Particulate Matter and Visible Emissions (12/19/90)</u>		
6-303	<u>Ringelmann No. 2 Limitation</u>	<u>Y</u>	
6-305	<u>Visible Particulates</u>	<u>Y</u>	
6-310	<u>Particulate Weight Limitation</u>	<u>Y</u>	
6-401	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>BAAQMD Regulation 9, Rule 1</u>	<u>Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)</u>		
9-1-301	<u>Limitations on Ground Level Concentrations</u>	<u>Y</u>	
9-1-304	<u>Fuel Burning (Liquid and Solid Fuels)</u>	<u>Y</u>	
<u>BAAQMD Regulation 9, Rule 8</u>	<u>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/93)</u>		
9-8-110.4	<u>Exemption from 9-8-301, 302, 502 Standards, Emergency Standby Engines</u>	<u>N</u>	
9-8-330	<u>Hours of Operation, Emergency Standby Engines</u>	<u>N</u>	
9-8-331	<u>Hours of Operation, Essential Public Service Standby Engines</u>	<u>N</u>	
9-8-530	<u>Monitoring and Recordkeeping, Emergency Standby Engines</u>	<u>N</u>	
<u>BAAQMD Condition #21924</u>			
Part 1	<u>Hours of Operation (9-8-331)</u>	<u>Y</u>	
Part 2	<u>Definition of Emergency Conditions (9-8-231)</u>	<u>Y</u>	
Part 3	<u>Definition of Reliability-Related Activities (9-8-232)</u>	<u>Y</u>	
Part 4	<u>Monitoring Equipment (9-8-530)</u>	<u>Y</u>	
Part 5	<u>Diesel Fuel Sulfur Content Limitation (9-1-304)</u>	<u>Y</u>	
Part 6	<u>Recordkeeping (1-441, 9-8-530)</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

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

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 8, Rule 2</u>	<u>Organic Compounds-Miscellaneous Operation (6/15/94)</u>	<u>Y</u>	
<u>8-2-301</u>	<u>Miscellaneous Operations</u>	<u>Y</u>	
<u>BAAQMD Condition # 21759</u>	<u>Operating Requirements</u>		
<u>Part 1</u>	<u>Wastewater Throughput (cumulative Increase)</u>	<u>Y</u>	
<u>Part 2</u>	<u>Consequences of odor complaints (1-301; Public Nuisance)</u>	<u>Y</u>	
<u>Part 3</u>	<u>Recordkeeping (2-6-409.2)</u>	<u>Y</u>	

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

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 8, Rule 2</u>	<u>Organic Compounds-Miscellaneous Operation (6/15/94)</u>		
<u>8-2-301</u>	<u>Miscellaneous Operations Standards</u>	<u>Y</u>	
<u>BAAQMD Cond #17335</u>	<u>Operating Requirements</u>		
<u>Part 1</u>	<u>Abatement Requirements (2-1-403)</u>	<u>N</u>	
<u>Part 2</u>	<u>Abatement Device - Maintenance of Abatement Efficiency (2-1-403)</u>	<u>N</u>	
<u>Part 3</u>	<u>Monitoring Parameters- Inlet & Outlet H2S Measurements (2-1-403)</u>	<u>N</u>	
<u>Part 4</u>	<u>Recordkeeping (2-1-403)</u>	<u>N</u>	

IV. Source-Specific Applicable Requirements

Part 5	Consequences of Odor Complaints (2-1-403)	N	
--------	---	---	--

Table IV-F M
Source Specific Applicable Requirements
S-110 Preliminary Treatment
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-150 Tertiary Treatment
S-160 Disinfection; Chlorination Contact Tanks, nonducted
S-170 Sludge Handling: Dewatering Centrifuges
S-171 Gravity Belt Thickener Belt 11-E
S-172 Gravity Belt Thickener Belt 12-Center
S-173 Gravity Belt Thickener Belt 13-W

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operation (6/15/94)		
8-2-301	Miscellaneous Operations Standards	Y	

Table IV-N
Source Specific Applicable Requirements
S-170 Sludge Handling: 3 WAS GBTs, 4 Dewatering Centrifuges

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 8, Rule 2</u>	<u>Organic Compounds-Miscellaneous Operation (6/15/94)</u>		
8-2-301	Miscellaneous Operations Standards	Y	
<u>BAAQMD Cond #18006</u>	<u>Operating Requirements</u>		
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	

IV. Source-Specific Applicable Requirements

Table IV-N
Source Specific Applicable Requirements
S-170 Sludge Handling: 3 WAS GBTs, 4 Dewatering Centrifuges

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
Part 4	Recordkeeping (2-6-409.2)	Y	

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

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
BAAQMD Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operation (6/15/94)		
8-2-301	Miscellaneous Operations Standards	Y	
<u>BAAQMD Regulation 9, Rule 2</u>	<u>Inorganic Gaseous Pollutants- Hydrogen Sulfide (10/6/99)</u>		
9-2-301	<u>H2S ground-level concentration limitations</u>	N	
BAAQMD Cond #13132			
<u>part 1</u>	<u>Alternative venting requirements (Basis: Reg 1-301)</u>	N	
<u>BAAQMD Cond # 18860</u>			
<u>Part 1</u>	<u>Primary Abatement of Digester Gas</u>	N	
<u>Part 2</u>	<u>Secondary Abatement of Digester Gas</u>	N	
<u>Part 3</u>	<u>Digester Gas Sulfide ppm Limit</u>	N	
<u>Part 4</u>	<u>Weekly Sulfide Content Monitoring</u>	N	
<u>Part 5</u>	<u>Recordkeeping</u>	N	

V. SCHEDULE OF COMPLIANCE

The permit holder shall ~~continue to~~ 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.

~~A. Source Specific Permit Conditions~~

The following table lists the sources in order with their current and future condition status.

<u>Source Number (s)</u>	<u>Former Condition #</u>	<u>Post-Permit Condition #</u>
5	278, 20296	20651
37	278, 20296	20651
38	278, 20296	20651
39	278, 20296	20651
43	2409	2409
45	2409	2409
47	2409	2409
48	7523	21663, 16516
49	19058	19058
50	19040	19040
51	19041	21921
(no condition listing for 19041)		
52	19184	19184
53	19534	21924
100	None	21759
110	17335	17335
170	18006	18006
180	13132	18860

Condition #278

Condition 278 was archived as a result of Application #3694. The new resulting condition was Condition 20296. See Statement of Basis for a detailed explanation.

~~For S-37, Dual Fuel Engine Generator S-3, Hot Water Boiler~~
~~S-38, Dual Fuel Engine Generator S-4, Hot Water Boiler~~
~~S-39, Dual Fuel Engine Generator S-5, Hot Water Boiler~~
~~S-6, Hot Water Boiler~~

1. ~~The total nitrogen oxide emissions from each of the three engines, S-37, S-~~

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

~~38, and S-39, shall not exceed 140 ppmvd @15% Oxygen. (Basis: Regulation 9-8-302)~~

~~2. The total carbon monoxide emissions from each of the three engines S-37, S-38, and S-39, shall not exceed 2000 ppmvd @15% Oxygen. (Basis: Regulation 9-8-302)~~

~~3. The total diesel fuel used shall not exceed 550 gals/stream day. (Basis: Cumulative Increase)~~

~~4. Except as provided by Condition #5, the four hot water boilers (S-3, S-4, S-5, S-6) shall be operated only on a standby basis, during periods when the Power Cogeneration station is inoperative. (Basis: Cumulative Increase)~~

~~5. EBMUD shall not operate more than two of the three engines (S-37, S-38, S-39) or one engine and one boiler (S-3, S-4, S-5, S-6) at any time. (Basis: Cumulative Increase)~~

~~6. In order to qualify for exemption from the NOx and CO emissions limits of District Regulation 9, Rule 7, the Hot Water Boilers S-3, S-4, S-5, and S-6 are limited to less than 90,000 therms of heat input per unit in any consecutive 12-month period. (Basis: Regulation 9-7-111)~~

~~7. 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 hours of operation of each engine and boiler.~~
- ~~b. Total digested gas, natural gas, and/or diesel consumption for the engines and boilers.~~

~~All records shall be retained on-site for five 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. (Basis: BAAQMD Regulation 2-6-501)~~

~~8. The owner/operator shall ensure that an annual performance test is conducted on each engine in accordance with the District test procedures to demonstrate compliance with the NOx and CO limits required by Conditions #1 and #2, respectively. 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)~~

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

~~9. To demonstrate compliance with the sulfur limits in Regulation 9, Rule 1, every delivery of diesel oil received onsite shall be accompanied by a vendor certification of sulfur content or shall be tested for sulfur content using a District approved method. The vendor certifications or lab results shall be maintained onsite for at least 5 years and shall be made available to the District upon request. (Basis: Regulation 2-6-409.2, 2-6-501)~~

~~10. The owner/operator of the Hot Water Boilers S-3, S-4, S-5, and S-6 shall perform an inspection and tune up of the combustion section of each boiler at least annually to ensure the proper air to fuel ratio is being used which maximizes efficiency and minimizes the production of nitrogen oxides and carbon monoxide, following the procedure of Regulation 9, Rule 7, Section 604 (CARB BARCT tune up procedure). The time interval between boiler tune-ups shall not exceed 12 months. (Basis: Regulation 9-7-304)~~

~~11. In order to demonstrate compliance with the requirements of condition #10, the owner/operator of the Hot Water Boilers S-3, S-4, S-5, and S-6 shall document each combustion unit tune up as follows: (Basis: Regulation 9-7-503.1)~~

- ~~a. Time and date of the tune up and the identity of the qualified technician.~~
- ~~b. Firing rate (MMBTU/hr), stack gas flow rate (scfm), and temperature (degrees F).~~
- ~~c. Stack gas oxygen concentrations (ppm dry) and carbon monoxide concentrations (ppm dry) before and after any adjustments are made.~~

~~These records shall be maintained for a period of at least 5 years from the date of the inspection and be available for review by District personnel upon request.~~

Condition #2409

Minor revisions to this condition were made for clarification. See Statement of Basis for a detailed explanation

~~For~~ S-43, Chlorination Building Wet Weather Primary Sludge Thickeners
S-45, Aerated Grit Tanks
S-46, Influent Pump Station
S-47, Scum Thickening Building

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

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

Condition #7523

Condition 7523 was archived as a result of Application #10237 (NSR Portion) and #10353 (Title V- Minor Modification). The new condition will be Condition 21663. See Statement of Basis for a detailed explanation.

For S-48, GDF #9008

- *1. Pursuant to BAAQMD Toxic Section Policy, this facility's annual gasoline throughput shall not exceed ~~400,000~~334,000 gallons in any consecutive 12-month period. (Basis: BAAQMD Toxic Policy)

Condition #13132

Condition 13132 will be archived. The new condition will be 18860. See Statement of Basis for a detailed explanation.

~~For S 180 Anaerobic Digesters; 12 Floating Cover Digesters~~

- ~~*1. S 180 shall be vented to A 190, A 191, A 192 or A 193, Digester Gas Flare in addition to, or when not vented to S 37, S 38, S 3, S 4, S 5 or S 6. (Basis: BAAQMD Regulation 1-301)~~

Condition 16516 (For Source S-48 GDF G-9008)

Condition 16516 was added as a result of Application #10237 (NSR Portion) and #10353 (Title V- Minor Modification). See Statement of Basis for a detailed explanation.

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. Test results shall be submitted to BAAQMD within 20 days of the test date. (basis: Regulation 8-7-407)

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

Condition #17335

Condition 17335 was added as a result of Application #1068. See Statement of Basis for a detailed explanation.

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

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

Condition 18006

Condition 18006 is identical to Condition 17399 and Condition 16810 (both archived) except for the reference to S-170 instead of S-171, S-172, and S-173, all Gravity Belt Thickeners. See Statement of Basis for a detailed explanation.

For S -170, Sludge Handling; 3 GBTs, 4 W.A.S. Thickening Centrifuges, Abated by A-7 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)

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

2. Abatement
All vapor emissions from S-170 shall be routed under negative pressure to A-7 Atomized Mist Scrubber. (Basis: Cumulative Increase)
3. A-7 Atomized Mist Scrubber 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. Records of each inspection shall consist of a log containing the date of inspection and the initials of the personnel that inspected A-7.
 - b. Records noting the occurrence and duration of any malfunction of A-7, 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.

Condition 18860

Condition 18860 replaces Condition 13132. See Statement of Basis for a detailed explanation.

For Source 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-37, S-38, S-39, and S-5, 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

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

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: 1-301, Cumulative Increase)

3. Digester gas total sulfur content shall not exceed 1500 ppmv. (Basis: BACT)
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:
 - 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.

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

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

Condition 19040 was established in loss of exemption application 4063. See Statement of Basis for a detailed explanation.

S-50 Emergency Backup Generator: Diesel Fired, Detroit Diesel, 238 HP, Installed before May 17, 2000

1. Hours of Operation
The emergency standby generator, S-50, shall only be operated for emergency use or for reliability-related activities. No time limit is imposed on the operation for reliability-related activities for S-50. Operation for emergency use is unlimited. [Basis: Regulation 9-8-331, District Diesel Policy]
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. This source shall only be fired on diesel fuel with a sulfur content not to exceed 0.5% by

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

weight. [Basis: Regulation 9-1-304]

To demonstrate compliance with the above sulfur limit, the Permit Holder shall secure and maintain onsite, for at least 5 years, one of the following records: [Basis: Regulations 2-6-409.2, 2-6-501]

- a. A written statement, as applicable, received from the diesel fuel supplier(s) certifying that the diesel fuel purchased from the supplier does not exceed 0.5% by weight or meets the sulfur limitations for CARB Vehicular Diesel Fuel as specified in 13 CCR, Section 2281, California Code of Regulations, or
- b. A vendor certification of sulfur content, or
- c. Fuel test results showing the sulfur content from a District-approved test.

5. Monitoring

The Permit Holder shall equip and operate the emergency standby engine with either: [Basis: Regulation 9-8-530]

- a. A non-resettable totalizing meter that measures and records the hours of operation, or
- b. A non-resettable totalizing meter that measures and records the fuel usage.

6. Recordkeeping

The Permit Holder shall maintain the following monthly records in a District-approved log 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]

- 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

Condition 19058 was established in loss of exemption application #4077. See Statement of Basis for a detailed explanation.

S-49 Portable Standby Generator: Diesel Fired, Allis-Chalmers 3500 MK11, 134 HP, 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]

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

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. This source shall only be fired on diesel fuel with a sulfur content not to exceed 0.5% by weight. [Basis: Regulation 9-1-304]

To demonstrate compliance with the above sulfur limit, the Permit Holder shall secure and maintain onsite, for at least 5 years, one of the following records: [Basis: Regulations 2-6-409.2, 2-6-501]

 - a. A written statement, as applicable, received from the diesel fuel supplier(s) certifying that the diesel fuel purchased from the supplier does not exceed 0.5% by weight or meets the sulfur limitations for CARB Vehicular Diesel Fuel as specified in 13 CCR, Section 2281, California Code of Regulations, or
 - b. A vendor certification of sulfur content, or
 - c. Fuel test results showing the sulfur content from a District-approved test.
5. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour that is as dark or darker than Ringelmann 1 or equivalent to 20% opacity. [Basis: Regulation 6-301] Deleted 12-15-04
6. This source shall not emit emissions in sufficient quantities as to cause a public nuisance under Regulation 1-301. [Basis: Regulation 1-301]
7. This source 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

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

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 this source.
- b. The location(s) at which the equipment was operated for more than 72 consecutive hours including the dates operated at each location.
- c. Diesel sulfur records required in Part 4, above.

9. Reporting

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

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

Condition 19184

Condition 19184 was established in loss of exemption application #4078. See Statement of Basis for a detailed explanation.

S-52 Portable Standby Generator: Diesel Fired, Generac 280 HP, Installed before May 17, 2000

1. This portable equipment shall operate at all times in conformance with the eligibility requirements set forth in BAAQMD Regulation 2-1-220 for portable equipment. [Basis: Regulation 2-1-220]
2. If the portable equipment remains at any fixed location in the Bay Area Air Basin for more than 12 months, the portable permit will automatically revert to a conventional permanent location BAAQMD permit and will lose its portability. [Basis: Regulation 2-1-220]
3. Any violation of Part #1, above, shall be reported to the Director of the Compliance and Enforcement Division no later than two business days after the incidence. In addition, any loss of portability per Part #2 shall be reported to the Director of the Compliance and Enforcement Division no later than 30 days after the loss of its portability. [Basis: Regulation 2-1-403]

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

4. This source shall only be fired on diesel fuel with a sulfur content not to exceed 0.5% by weight. [Basis: Regulation 9-1-304]

To demonstrate compliance with the above sulfur limit, the Permit Holder shall secure and maintain onsite, for at least 5 years, one of the following records: [Basis: Regulations 2-6-409.2, 2-6-501]

- a. A written statement, as applicable, received from the diesel fuel supplier(s) certifying that the diesel fuel purchased from the supplier does not exceed 0.5% by weight or meets the sulfur limitations for CARB Vehicular Diesel Fuel as specified in 13 CCR, Section 2281, California Code of Regulations, or
- b. A vendor certification of sulfur content, or
- c. Fuel test results showing the sulfur content from a District-approved test.
5. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour that is as dark or darker than Ringelmann 1 or equivalent to 20% opacity. [Basis: Regulation 6-301] Deleted 12-15-2004
6. This source shall not emit emissions in sufficient quantities as to cause a public nuisance under Regulation 1-301. [Basis: Regulation 1-301]
7. This source 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: Regulations 1-441, 9-8-530]
- a. Monthly hours of operation or monthly fuel usage for this 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

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

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

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

Condition 19534

Condition 19534 is a template condition for essential emergency standby engines larger than 250 hp. This condition was originally assigned to backup generator S-53. This is a template condition which cannot be used for Title V due to the discrepancy between normal recordkeeping requirements (2 years) vs. Title V recordkeeping (5 years). A new condition was assigned for S-53 which takes into account the following conditions as well as Title V recordkeeping. See Statement of Basis for a detailed explanation.

~~REQUIREMENTS FOR ESSENTIAL EMERGENCY ENGINES:~~

~~An essential emergency engine is one that is used in the service of an essential public service. An essential public service is defined in Reg. 9-8-233 as: a sewage treatment facility, and associated collection system, which is publicly owned and operated; water treatment and delivery operations; public transit; police or fire fighting facility; airport runway lights; or a hospital or other medical emergency facility.~~

~~1. Hours of Operation: The owner/operator shall operate the emergency standby engine(s) only to mitigate emergency conditions or for reliability-related activities. Operating while mitigating emergency conditions is unlimited. Operating for reliability related activities is limited to 200 hours per any calendar year. [Basis: Reg. 9-8-331] "Emergency Conditions" is defined as any of the following:~~

- ~~a. Loss of regular natural gas supply.~~
- ~~b. Failure of regular electric power supply.~~
- ~~c. Flood mitigation.~~
- ~~d. Sewage overflow mitigation.~~

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

~~e. Fire.~~

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

~~[Basis: Reg. 9-8-231]~~

~~"Reliability related activities" is defined as any of the following:~~

~~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.~~

~~[Basis: Reg. 9-8-232]~~

~~2. The owner/operator shall equip the emergency standby engine(s) with either:~~

~~a. a non-resettable totalizing meter that measures the hours of operation for the engine; or~~

~~b. a non-resettable fuel usage meter, the maximum hourly fuel rate shall be used to convert fuel usage to hours of operation. [Basis: Reg. 9-8-530]~~

~~3. Records: The owner/operator shall maintain the following monthly records in a District approved log for at least 2 years and shall make the log available for District inspection upon request:~~

~~a. Hours of operation (total).~~

~~b. Hours of operation (emergency).~~

~~c. For each emergency, the nature of the emergency condition.~~

~~d. Fuel usage for engine(s) if a non-resettable fuel usage meter is utilized. [Basis: Reg. 9-8-530, 1-441]~~

Condition 20651

Condition #20651 replaces Condition 20296 which replaced Condition 278. See Statement of Basis for a detailed explanation.

S-5 Hot Water Boiler

S-37, Multi-Fuel Cogeneration Engine #1

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

S-38, Multi-Fuel Cogeneration Engine #2

S-39, Multi-Fuel Cogeneration Engine #3

Conditions For S-5 Hot Water Boiler

1. Boiler S-5 shall be fired only on sewage sludge digester gas. (Basis: Regulation 9-7-304)
2. EBMUD shall not operate S-5 hot water boiler simultaneously with more than two of the three cogeneration engines S-37, S-38, or S-39 (Basis: Cumulative Increase)
3. Gross thermal input to S-5 shall not exceed 9.87 million Btu/hr. (Basis: Regulation 9-7-304)
4. The owner/operator of the hot water boiler S-5 shall perform an inspection and tune up of the combustion section at least annually to ensure the proper air-to-fuel ratio is being used which maximizes efficiency and minimizes the production of nitrogen oxides and carbon monoxide, following the procedure of Regulation 9, Rule 7, Section 604 (CARB BARCT tune up procedure). The time interval between boiler tune-ups shall not exceed 12 months. (Basis: Regulation 9-7-304)
5. In order to demonstrate compliance with the requirements of part 4, the owner/operator of the hot water boiler S-5 shall document each tune up as follows: (Basis: Regulation 9-7-503.1)
 - a. Time and date of the tune up and the identity of the qualified technician.
 - b. Firing rate (MMBTU/hr), stack gas flow rate (scfm), and temperature (degrees F).
 - c. Stack gas oxygen concentrations (ppm dry) and carbon monoxide concentrations (ppm dry) before and after any adjustments are made.

Conditions Specific to Cogeneration Engine S-38

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

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

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

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

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

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

Transient Periods are defined as any of the following:

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

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

13. Total thermal throughput shall not exceed 19.8 MM Btu/hr per engine. (Basis: Cumulative Increase)

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

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. Total Sulfur content of the gaseous feed to engine S-38 shall not exceed 340 ppmv at 0% O₂. (Basis: BACT)

The Permit Holder shall demonstrate compliance with the above limit by weekly sampling and testing of either the digester gas or gaseous feed to the engines according to the following methodologies:

- 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 of 200 ppmv or less shall be deemed to demonstrate compliance with the above 340 ppmv limit. An H2S measurement by Draeger Tube exceeding 200 ppmv shall not be deemed a violation of the 340 ppmv limit, 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 ppmv, 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 fuel gas for sulfides shall be handled as a minor revision to the Title V Permit.

17. The diesel fuel sulfur content shall not exceed 0.05% by weight. (Basis: Cumulative Increase, BACT)

To demonstrate compliance with the above sulfur limit, the Permit Holder shall maintain a written statement, as applicable, received from the diesel fuel supplier(s) certifying that the diesel fuel purchased from the supplier is less than 0.05% by weight or meets the sulfur

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

limitations for CARB Vehicular Diesel Fuel as specified in 13 CCR Section 2281, California Code of Regulations. (Basis: Regulations 2-6-409.2, 2-6-501)

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-5.
 - b. Total digester gas, natural gas, and/or diesel consumption for the engines and boiler S-5.
 - 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 in accordance with the District test procedures to demonstrate compliance with the NOx, CO, POC, and particulate limits, where applicable, as required by Conditions 6 – 11, respectively. 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)

Condition 21663 (For Source S-48 GDF G-9008)

Condition 21663 replaces Condition 7523, as a result of Application #10237 (NSR Portion) and #10353 (Title V- Minor Modification). See Statement of Basis for a detailed explanation.

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

Condition 21759 is a new condition. See Statement of Basis for a detailed explanation.

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

S-100 Conditions

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.

Condition 21921 for Source S-51

Condition 21921 is a new condition which essentially duplicates the requirements of Condition 19041 as listed in the Engineering Evaluation of Permit Application # 4064. However, there was no such condition (#19041) listed in the databank and therefore Condition 21921 was developed. See the Statement of Basis for a more detailed explanation.

S-51 Emergency Backup Generator: Diesel Fired, Generac, 268 HP, Installed before May 17, 2000

1. Hours of Operation
The emergency standby engine shall only be operated to mitigate emergency conditions or for reliability-related activities. Operation for reliability-related activities shall not exceed 200 hours in any calendar year. Operation while mitigating emergency

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

conditions is unlimited. [Basis: Regulation 9-8-331]

2. Emergency Conditions is defined as any of the following: [Basis: Regulation 9-8-231]
 - a. Loss of regular natural gas supply.
 - b. Failure of regular 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. Monitoring
The Permit Holder shall equip and operate the emergency standby engine with either: [Basis: Regulation 9-8-530]
 - a. A non-resettable totalizing meter that measures and records the hours of operation, or
 - b. A non-resettable totalizing meter that measures and records the fuel usage.

5. This source shall only be fired on diesel fuel with a sulfur content not to exceed 0.5% by weight. [Basis: Regulation 9-1-304]
To demonstrate compliance with the above sulfur limit, the Permit Holder shall secure and maintain onsite, for at least 5 years, one of the following records: [Basis: Regulations 2-6-409.2, 2-6-501]
 - a. A written statement, as applicable, received from the diesel fuel supplier(s) certifying that the diesel fuel purchased from the supplier does not exceed 0.5% by weight or meets the sulfur limitations for CARB Vehicular Diesel Fuel as specified in 13 CCR, Section 2281, California Code of Regulations, or
 - b. A vendor certification of sulfur content, or
 - c. Fuel test results showing the sulfur content from a District-approved test.

6. Recordkeeping
The following monthly records shall be maintained in a District-approved log for at least 5 years from the date of entry, and shall be made available for District inspection upon

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

request. [Basis: Regulations 1-441, 9-8-530]

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

Condition 21924 for Source S-53

Condition 19534 (template condition) was originally established for backup generator S-53 in permit application 4062. Template conditions cannot be used for the Title V Permit due to the lack of diesel sulfur limits and the 2 year recordkeeping requirement (Title V Permits require 5 years of recordkeeping). For this reason Condition 21924 was developed for S-53. See the Statement of Basis for a more detailed explanation.

S-53 Emergency Backup Generator: Diesel Fired, 277 HP, Installed before May 17, 2000

1. Hours of Operation
The emergency standby engine shall only be operated to mitigate emergency conditions or for reliability-related activities. Operation for reliability-related activities shall not exceed 200 hours in any calendar year. Operation while mitigating emergency conditions is unlimited. [Basis: Regulation 9-8-331]
2. Emergency Conditions is defined as any of the following: [Basis: Regulation 9-8-231]
 - a. Loss of regular natural gas supply.
 - b. Failure of regular 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. Monitoring

VI. Permit Conditions

~~A. Source Specific Permit Conditions~~

The Permit Holder shall equip and operate the emergency standby engine with either:
[Basis: Regulation 9-8-530]

- a. A non-resettable totalizing meter that measures and records the hours of operation, or
- b. A non-resettable totalizing meter that measures and records the fuel usage.

5. This source shall only be fired on diesel fuel with a sulfur content not to exceed 0.5% by weight. [Basis: Regulation 9-1-304]

To demonstrate compliance with the above sulfur limit, the Permit Holder shall secure and maintain onsite, for at least 5 years, one of the following records: [Basis: Regulations 2-6-409.2, 2-6-501]

- a. A written statement, as applicable, received from the diesel fuel supplier(s) certifying that the diesel fuel purchased from the supplier does not exceed 0.5% by weight or meets the sulfur limitations for CARB Vehicular Diesel Fuel as specified in 13 CCR, Section 2281, California Code of Regulations, or
- b. A vendor certification of sulfur content, or
- c. Fuel test results showing the sulfur content from a District-approved test.

6. Recordkeeping

The following monthly records shall be maintained in a District-approved log for at least 5 years from the date of entry, and shall be made available for District inspection upon request. [Basis: Regulations 1-441, 9-8-530]

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

~~B. Facility-wide Permit Conditions~~

NONE

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, ~~either 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-3, S-4, S-5, S-6 Hot Water Boilers

Pollutant Type of Limit	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD Regulation 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	<u>N</u>
	BAAQMD Regulation 9-1-302	Y		300 ppm (dry)	None Condition 18860, part 4	N Y, P or M	<u>Sulfur Content Testing</u>
	BAAQMD Regulation 9-1-304	Y		Sulfur content of Liquid Fuel <0.5% by weight	Condition #278, part 7 20651, part 17	P/E	sulfur certifications or analysis
	<u>BAAQMD Cond 20651, Part 16</u>	<u>Y</u>		<u>Sulfur Content of Gaseous Fuel, 340 (max) ppm at 0% O2</u>	<u>BAAQMD Cond 18860, Part 4</u>	<u>P/W or M</u>	<u>Sulfur Content Testing</u>
<u>Opacity</u>	<u>BAAQMD 6-301</u>	<u>Y</u>		<u>> Ringelmann 1.0 for no more than 3 min in any hour</u>	<u>N</u>	<u>N</u>	<u>N</u>

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-A
Applicable Limits and Compliance Monitoring Requirements
S-3, S-4, S-5, S-6 Hot Water Boilers

<u>Pollutant Type of Limit</u>	<u>Emission Limit Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Emission-Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
PM	BAAQMD 6-310	Y		0.15 gr/dscf at 6% Oxygen	N	N	N
Organic Compounds	BAAQMD 8-2-301	Y		>15 lb/day or >300 ppm total carbon concentration	N	N	N

Table VII-B
Applicable Limits and Compliance Monitoring Requirements
S-37 ~~Dual~~ Multi-Fuel Cogeneration Engine Generator-Firing Digester Gas, Natural Gas, Diesel Fuel
S-38 Dual Fuel Engine Generator-Firing Digester Gas
S-39 ~~Dual~~ Multi-Fuel Cogeneration Engine Generator-Firing Digester Gas, Natural Gas, Diesel Fuel

<u>Pollutant Type of Limit</u>	<u>Emission Limit Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Emission-Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
NOx	BAAQMD Regulation 9-8-302.1	Y		140 ppmv @ 15% O2, dry	BAAQMD Cond. 278 20651, part 8 19	-P/A	source test or alternate monitoring plan
	BAAQMD Cond 278 20651; part 4 10	Y		140 ppmv @ 15% O2, dry	BAAQMD Cond. 278 20651, part 8 19	P/A	source test or alternate monitoring plan
CO	BAAQMD Regulation 9-8-302.3	Y		2000 ppmv @ 15% O2, dry	BAAQMD Cond. 278 20651, part 8 19	P/A	source test or alternate monitoring plan
	BAAQMD Cond 278 20651, part 2 11	Y		2000 ppmv @ 15% O2, dry	BAAQMD Cond. 278 20651, part 8 19	P/A	source test or alternate monitoring plan
SO2	BAAQMD Regulation	Y		GLC of 0.5 ppm for 3 min or 0.25 ppm for	None	N	

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-B
Applicable Limits and Compliance Monitoring Requirements
S-37 ~~Dual~~ Multi-Fuel Cogeneration Engine Generator-Firing Digester Gas, Natural Gas, Diesel Fuel
S-38 ~~Dual Fuel Engine Generator-Firing Digester Gas~~
S-39 ~~Dual~~ Multi-Fuel Cogeneration Engine Generator-Firing Digester Gas, Natural Gas, Diesel Fuel

<u>Pollutant Type of Limit</u>	<u>Emission Limit Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Emission-Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
	9-1-301			60 min or 0.05 ppm for 24 hours			
	BAAQMD Regulation 9-1-302	Y		300 ppm (dry)	None Condition 18860, part 4	NP/W or M	<u>Sulfur Content Testing</u>
	BAAQMD Regulation 9-1-304	Y		Sulfur content of fuel <0.5% by weight	Condition #278 20651, part 9 17	P/E	s Sulfur certifications or analysis
	BAAQMD Cond 20651, part 17	Y		<u>Sulfur content of fuel <0.05% by weight</u>	<u>Condition 20651, part 17</u>	N	<u>Statement of Fuel Sulfur Content or CARB Diesel Equivalent</u>
<u>Opacity</u>	BAAQMD 6-301	Y		> Ringelmann 1.0 for no more than 3 min in any hour		N	
<u>FP</u>	BAAQMD 6-310	Y		0.15 gr/dscf		N	
<u>Organic Compounds</u>	BAAQMD 8-2-301	Y		>15 lb/day or >300 ppm total carbon concentration	N	N	N
<u>Fuel Input, Combined to S-37, 38, 39</u>	BAAQMD Cond 278, part 3 15	Y		550 <u>GPSD 150,000</u> gallons in any rolling 365 day period	BAAQMD Cond 278 20651, part 7 18	P/D	# Records
<u>Thermal Throughput</u>	BAAQMD Cond 20651, part 13	Y		19.8 MM Btu/hr per engine	BAAQMD Cond 20651, part 18	P/D	Records
<u>Hours of Operation</u>	BAAQMD Cond	Y		25,316 hours in any rolling 365 day period	BAAQMD Cond 20651,	P/D	Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-B
Applicable Limits and Compliance Monitoring Requirements
S-37 ~~Dual-Multi-Fuel Cogeneration Engine Generator-Firing Digester Gas, Natural Gas, Diesel Fuel~~
S-38 ~~Dual Fuel Engine Generator-Firing Digester Gas~~
S-39 ~~Dual-Multi-Fuel Cogeneration Engine Generator-Firing Digester Gas, Natural Gas, Diesel Fuel~~

<u>Pollutant Type of Limit</u>	<u>Emission Limit Citation of Limit</u>	FE Y/N	Future Effective Date	<u>Emission-Limit</u>	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
S-37, 38, 39 Combined	20651, part 14				part 18		

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-C
Applicable Limits and Compliance Monitoring Requirements
S-38 Dual Fuel Engine Generator-Firing Digester Gas

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
NOx	BAAQMD Regulation 9-8-302.1	Y		140 ppmv @ 15% O ₂ , 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 Regulation 9-8-302.3	Y		2000 ppmv @ 15% O ₂ , dry	BAAQMD Cond. 20651, part 19	P/A	source test
	BAAQMD Cond 20651, part 8	Y		3.0 g/bhp-hr	BAAQMD Cond. 20651, part 19	P/A	source test
SO ₂	BAAQMD Regulation 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	
	BAAQMD Regulation 9-1-302	Y		300 ppm (dry)	None	N	
	BAAQMD Regulation 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 Cond 20651, Part 16	Y		Sulfur content of gaseous fuel, 340 (max) ppm at 0% O ₂	BAAQMD Cond 18860 20651, Part 416	P/W- or M	Sulfur Content Testing
	BAAQMD Cond 20651, part 17	Y		Sulfur content of diesel fuel <0.05% by weight	Condition 20651, part 17	N	Statement of Fuel Sulfur Content or CARB Diesel Equivalent
POC	BAAQMD Cond 20651, part	Y		0.6 g/bhp-hr	BAAQMD Cond 20651, part 19	P/A	source test

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-C
Applicable Limits and Compliance Monitoring Requirements
S-38 Dual Fuel Engine Generator-Firing Digester Gas

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
	<u>7</u>						
	<u>BAAQMD 8-2-301</u>	<u>Y</u>		<u>>15 lb/day or >300 ppm total carbon concentration</u>	<u>N</u>	<u>N</u>	<u>N</u>
<u>Opacity</u>	<u>BAAQMD 6-301</u>	<u>Y</u>		<u>> Ringelmann 1.0 for no more than 3 min in any hour</u>		<u>N</u>	
<u>FP</u>	<u>BAAQMD 6-310</u>	<u>Y</u>		<u>0.15 gr/dscf</u>		<u>N</u>	
	<u>BAAQMD Condition 20651, part 9</u>	<u>Y</u>		<u>0.085 g/hp-hr</u>	<u>BAAQMD Cond. 20651, part 19</u>	<u>P/A</u>	<u>source test</u>
<u>Fuel Input, Combined to S-37, 38, 39</u>	<u>BAAQMD Condition 20651, part 15</u>	<u>Y</u>		<u>150,000 gallons in any rolling 365 day period</u>	<u>BAAQMD Cond 20651, part 18</u>	<u>P/D</u>	<u>Records</u>
<u>Thermal Throughput</u>	<u>BAAQMD Condition 20651 part 13</u>	<u>Y</u>		<u>19.8 MM Btu/hr per engine</u>	<u>BAAQMD Cond 20651, part 18</u>	<u>P/D</u>	<u>Records</u>
<u>Hours of Operation, S-37, 38, 39 Combined</u>	<u>BAAQMD Condition 20651 part 14</u>	<u>Y</u>		<u>25,316 hours in any rolling 365 day period</u>	<u>BAAQMD Cond 20651, part 18</u>	<u>P/D</u>	<u>Records</u>
<u>Gaseous Fuel Sulfur Content</u>	<u>BAAQMD Condition 20651 part 16</u>	<u>Y</u>		<u>340 ppmv at 0% O₂</u>	<u>BAAQMD Cond 20651, part 16</u>	<u>P/W</u>	<u>Testing</u>

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-C
S-42 Aerosol Can Painting Operation

Pollutant Type of Limit	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Regulation 8-49-301	Y		Various, see BAAQMD Reg 8-49- 301.1-301.3	BAAQMD Cond 911; parts 1,2,3	P/M	records
	BAAQMD Regulation 8-49-303	Y		Weighted average of the limits in §8-49-301	BAAQMD Condition 911; parts 1, 2, 3	P/M	records
	BAAQMD Cond 911, part 4	Y		Coatings, thinner, solvent usage; 200 gal/12 months	BAAQMD Cond 911, parts 1, 2, 3	P/M	records

Table VII-D
Applicable Limits and Compliance Monitoring Requirements
S-43 Wet Weather Primary Sludge Thickeners (2)
S-44 Chlorination Building
S-45 Aerated Grit Building Tanks (8)
S-46 Influent Pump Station
S-47 Scum Thickening Building

Type of Limit Pollutant	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Regulation 8-2-301	Y		Emissions may not exceed 300 ppm total carbon, dry, and 15 lb/day/source	None	N	

VII. Applicable Emission Limits & Compliance Monitoring Requirements

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

<u>Type of Limit Pollutant</u>	<u>Emission Limit Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Emission-Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
VOC	<u>BAAQMD Regulation 8-7-301.2</u>	Y		<u>95% recovery of gasoline vapors during tank filling</u>	None	N	
	<u>BAAQMD Regulation 8-7-301.10</u>	Y	2009	<u>Equipment certified to recover 98% of gasoline vapors during tank filling</u>	None	N	
	<u>BAAQMD Regulation 8-7-302.8</u>			<u>Liquid removal devices to achieve a minimum liquid removal rate of 5 ml per gallon dispensed</u>	None	N	
	<u>BAAQMD Condition #7523, part 1</u>	N		<u>gasoline throughput shall not exceed 400,000 gallons per year</u>	None	N	
	<u>BAAQMD Condition #21663</u>	Y		<u>Gasoline throughput shall not exceed 334,000 gallons per year</u>	<u>8-7-503.1</u>	P/A	<u>Records</u>
	<u>BAAQMD Condition 16516</u>	Y		<u>Annual pressure decay (ST-38) test</u>	<u>8-7-407</u>	P/A	<u>Records</u>

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-F
Applicable Limits and Compliance Monitoring Requirements
S-49, Diesel Engine, Portable BUG, Allis Chalmers 3500 MKII, 134 HP

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
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	BAAQMD 9-1-304	N		0.5% by weight		N	
Diesel Sulfur Content	BAAQMD Condition 19058, part 4.	Y		0.5% by weight	BAAQMD Condition 19058, Part 8c	P/E	Records
Opacity	BAAQMD 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	

Table VII-G
Applicable Limits and Compliance Monitoring Requirements
S-50, Diesel Engine, Detroit Diesel, 238 HP

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
Diesel Sulfur Content	BAAQMD 9-1-304	N		0.5% by weight		N	
Diesel Sulfur Content	BAAQMD Condition 19040, part 4.	Y		0.5% by weight	BAAQMD Condition 19040, Part 4	P	Records
Opacity	BAAQMD	Y		>Ringelmann 2.0 for		N	

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-G
Applicable Limits and Compliance Monitoring Requirements
S-50, Diesel Engine, Detroit Diesel, 238 HP

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
	6-303			no more than 3 min in any hour			
FP	BAAQMD 6-310	Y		0.15 gr/dscf		N	

Table VII-H
Applicable Limits and Compliance Monitoring Requirements
S-51, Diesel Engine, BUG, Generac, 268 HP

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
Hrs of Operation	BAAQMD 9-8-331	N		200 hours/calendar year	BAAQMD 9-8-530, Cond 21921, part 4a	C	Records
Diesel Sulfur Content	BAAQMD 9-1-304	N		0.5% by weight		N	
Diesel Sulfur Content	BAAQMD Condition 21921, part 5	Y		0.5% by weight	BAAQMD Condition 21921, Part 5	P	Records
Opacity	BAAQMD 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	

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-I
Applicable Limits and Compliance Monitoring Requirements
S-52, Diesel Engine, Portable BUG, Generac 280 HP

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
Hours of Operation within 1000 ft of School	BAAQMD Cond 19184, part 7	Y		72 consecutive hours (unless permit is granted for more time)	BAAQMD Cond 19184, parts 8a, 8b	P/M	Records
Diesel Sulfur Content	BAAQMD 9-1-304	N		0.5% by weight		N	
Diesel Sulfur Content	BAAQMD Condition 19184, part 4,	Y		0.5% by weight	BAAQMD Condition 19184, Part 8c	P/E	Records
Opacity	BAAQMD 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	

Table VII-J
Applicable Limits and Compliance Monitoring Requirements
S-53, Diesel Engine, BUG, 277 HP

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
Hrs of Operation	BAAQMD 9-8-331	N		200 hours/calendar year	BAAQMD 9-8-530, Cond 21924, part 4a	C	Records
Diesel Sulfur Content	BAAQMD 9-1-304	N		0.5% by weight		N	
Diesel Sulfur Content	BAAQMD Condition 21924,	Y		0.5% by weight	BAAQMD Condition 21924,	P	Records

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-J
Applicable Limits and Compliance Monitoring Requirements
S-53, Diesel Engine, BUG, 277 HP

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
	part 5				Part 5		
Opacity	BAAQMD 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	

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

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
Wastewater Throughput	Condition 21759, part 1	Y		120 million gal/day dry 325 million gal/day wet	Condition 21759, part 3	P/D	Records
VOC	BAAQMD Regulation 8-2-301	Y		Emissions may not exceed 300 ppm total carbon, dry, and 15 lb/day/source	None	N	

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-LJ

Applicable Limits and Compliance Monitoring Requirements
S-110 Preliminary Treatment 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, Nonducted
S-170 Sludge Handling, 3 WAS GBTs, 4 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
VOC	BAAQMD Regulation 8-2-301	Y		Emissions may not exceed 300 ppm total carbon, dry, and 15 lb/day/source	None	N	

VII. Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-FM
Applicable Limits and Compliance Monitoring Requirements
S-180 Anaerobic Digesters; 102 Floating Cover Digesters, 1 Dystor

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
VOC	BAAQMD Regulation 8-2-301	Y		Emissions may not exceed 300 ppm total carbon, dry, and 15 lb/day/source	None	N	
H2S	BAAQMD Regulation 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	N	
Sulfide Content	BAAQMD Cond 18860, part 3	N		1500 ppmv	BAAQMD Cond 18860, part 4	P/W	Testing
None	None	N		None	BAAQMD Cond 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	<u>Ringelmann No. 1 Limitation</u>	<u>Manual of Procedures, Volume I, Evaluation of Visible Emissions</u>
BAAQMD 6-303	<u>Ringelmann No. 2 Limitation</u>	<u>Manual of Procedures, Volume I, Evaluation of Visible Emissions</u>
BAAQMD 6-310	<u>Particulate Weight Limitation</u>	<u>Manual of Procedures, Volume IV, ST-15, Particulate</u>
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	<u>Gasoline Vapor Recovery- Phase II - Liquid Removal Requirements</u>	<u>Manual of Procedures, Volume IV, ST-37, GDF Liquid Removal Devices</u>
BAAQMD Regulation 8-49-301	VOC Limits For Aerosol Products	Manual of Procedures, Volume III, Method 35, Determination of Volatile Organic Compounds (VOC) in Solvent Based Aerosol Paints and Adhesives, and Method 36, Determination of Volatile Organic Compounds (VOC) in Water Based Aerosol Paints.
BAAQMD Regulation 8-49-303	VOC Limits for Aerosol Products	Manual of Procedures, Volume III, Method 35, Determination of Volatile Organic Compounds (VOC) in Solvent Based Aerosol Paints and Adhesives, and Method 36, Determination of Volatile Organic Compounds (VOC) in Water Based Aerosol Paints.
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	Limit on Stack-Gas Oxygen	Manual of Procedures, Volume IV, ST-14, Continuous Sampling

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
9-7-304.1	Concentration	
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
<u>BAAQMD</u> <u>Cond 18860,</u> <u>Part 3</u>	<u>Digester Gas Sulfide Content</u> <u>Limitation</u>	<u>Manual of Procedures, Volume III, Method 44 or ASTM Method D5504</u>
BAAQMD Cond 278 20651 Part 4 10	Maximum NOx emission rate	BAAQMD MOP Volume IV, ST-13A Oxides of Nitrogen, Continuous Sampling, and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond 278 20651 Part 6	NOx Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling or ST-14, Oxygen, Continuous Sampling
<u>BAAQMD</u> <u>Cond 20651</u> <u>Part 8</u>	<u>CO Limits</u>	<u>Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling</u>
BAAQMD Cond 278 20651 Part 2 11	CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
<u>BAAQMD</u> <u>Cond 20651</u> <u>Part 16</u>	<u>Gaseous Fuel Sulfur Content</u>	<u>Manual of Procedures, Volume III, Method 44 or ASTM Method D5504</u>
BAAQMD Cond 278 20651 Part 7 17	<u>Diesel Fuel Sulfur Content</u>	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oil
<u>BAAQMD</u> <u>Cond 19040,</u> <u>Part 4</u>	<u>Diesel Fuel Sulfur Content</u>	<u>Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oil</u>
<u>BAAQMD</u> <u>Cond 19058,</u>	<u>Diesel Fuel Sulfur Content</u>	<u>Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oil</u>

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
<u>Part 4</u>		
<u>BAAQMD Cond 19184, Part 4</u>	<u>Diesel Fuel Sulfur Content</u>	<u>Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oil</u>
<u>BAAQMD Cond 21921, Part 5</u>	<u>Diesel Fuel Sulfur Content</u>	<u>Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oil</u>
<u>BAAQMD Cond 21924, Part 5</u>	<u>Diesel Fuel Sulfur Content</u>	<u>Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oil</u>

IX. PERMIT SHIELD

Not applicable



X. REVISION HISTORY

Initial Issuance:	July 1, 1997
Minor Modification <u>(AN 1209, 1068, 27693)</u>	November 9, 2000
<u>Minor Modification (AN 10353/10237):</u> <u>Removal of underground tank,</u> <u>installation of aboveground tank</u>	<u>July 14, 2004</u>

IXXI. 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.

XIIX. Glossary

FE, Federally Enforceable,

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

FP

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

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 both 40 CFR Part 63, and District Regulation 2, Rule 5.

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. ~~Contained See in~~ 40 CFR Part 61.

NMHC

Non-methane Hydrocarbons

NO_x

Oxides of nitrogen.

XIX. Glossary

NSPS

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

NSR

New Source Review. A federal program for preconstruction review and permitting of new and modified sources of air pollutants for which ~~the District is classified "non-attainment"~~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 ~~and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits.~~ Applies to emissions of POC, NOx, PM10, and SO2.

Phase II Acid Rain Facility

A facility that generates electricity for sale through fossil-fuel combustion ~~and by virtue of certain other characteristics (defined in Regulation 2, Rule 6)~~ is subject to and is not exempted by 40 CFR 72 from Titles IV and V of the Clean Air Act.

POC

Precursor Organic Compounds

PM

~~Total~~ 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.

XIIX. Glossary

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

XIX. Glossary

min	=	minute
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