

Bay Area Air Quality Management District

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

FinalProposed

MAJOR FACILITY REVIEW PERMIT

Issued To:

City of Santa Rosa Wastewater Treatment

Facility #A1403

Facility Address:

4300 Llano Road
Santa Rosa CA 95407

Mailing Address:

4300 Llano Road
Santa Rosa CA 95407

Responsible Official

Miles Ferris,
Director Of Utilities
(707) 543-3350

Facility Contact

~~Dean Paige, Martin St. George~~
Environmental Compliance Officer
(707) 543-~~3375~~3409

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

BAAQMD Engineering Division Contact
~~Randy Frazier, P.E.~~Eric Chan

Primary SIC: 4952

Product: Treated Municipal Wastewater

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Jack P. Broadbent

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

January 8, 2007

Date

TABLE OF CONTENTS

I.	STANDARD CONDITIONS	3
II.	EQUIPMENT LIST	8
III.	GENERAL APPLICABLE REQUIREMENTS	12
IV.	SOURCE-SPECIFIC APPLICABLE REQUIREMENTS	1516
V.	SCHEDULE OF COMPLIANCE	3941
VI.	PERMIT CONDITIONS	3941
	A. Source Specific Permit Conditions.....	3941
VII.	APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS..	5658
VIII.	TEST METHODS	6971
IX.	REVISION HISTORY	7173
X.	GLOSSARY	7274

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 ~~5/2/01~~5/4/11);

SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through ~~8/27/28~~8/28/99);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on ~~8/1/01~~4/18/12);

SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through ~~2/25/26~~2/26/99);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on ~~5/17/00~~6/15/05);

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through ~~2/25/99~~1/26/99);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on ~~5/17/00~~12/21/04);

SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through ~~2/25/99~~1/26/99); ~~and~~

BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants
(as amended by the District Board on 01/06/10);

BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on ~~5/2/01~~4/16/03); ~~and-~~

SIP Regulation 2, Rule 6 – Permits, Major Facility Review
(as approved by EPA through 6/23/95)

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

1. This Major Facility Review Permit was issued on ~~January 8, 2007~~[Date issued] and expires on ~~January 7, 2012~~[Date Expires]. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than ~~July 12, 2011~~[Six months prior to expiration] and no earlier than ~~January 7, 2011~~[one year prior to expiration]. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after ~~January 7, 2012~~, [5 yrs after issuance].** 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

I. Standard Conditions

- grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)
 4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
 5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
 6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
 7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
 8. Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
 9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
 10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions or the potential to emit for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
 11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The certifications shall be signed by a responsible official for the facility. (Regulation 2-6-409.20, MOP Volume II, Part 3, §4.11)

I. Standard Conditions

~~11.12.~~ The permit holder is responsible for compliance, and certification of compliance with all conditions of the permit, regardless whether it acts through employees, agents, contractors, or subcontractors. (Regulation 2-6-307)

C. Requirement to Pay Fees

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

D. Inspection and Entry

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

E. Records

1. The permit holder must provide any information, records, and reports requested or specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)
2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of creation of the record. (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. **Reports are due for the following periods: July 1st through December 31st and January 1st through June 30th, 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)

I. Standard Conditions

G. Compliance Certification

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

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

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

H. Emergency Provisions

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

I. Severability

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

J. Miscellaneous Conditions

I. Standard Conditions

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

II. EQUIPMENT 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-3	Compost Facility, 31E3-31000 sq ft	N/A	Custom	31,000 sq ft
S-4	Stockpiles/Finished Compost & Yard Waste	N/A	Custom	36,500 tons
S-5	Trommel Screen, Portable	N/A	Custom	36,500 tons
S-17	Reclaimed Water Pond C, 216 MM Gal Cap	N/A	Custom	216 MM gal capacity
S-18	Reclaimed Water Pond D, 358 MM Gal Cap	N/A	Custom	358 MM gal capacity
S-28	Hot water Boilers (2) (digester gas, natural gas)	Cleaver Brooks	CB-125	8.4 MM Btu/hr each
S-29	Internal Combustion <u>4-stroke</u> lean burn engine #1 (digester gas, natural gas)	Waukesha	L7042G0	1160 h-p HP
S-31	Internal Combustion <u>4-stroke</u> lean burn engine #3 (digester gas, natural gas)	Waukesha	L7042G0	1160 HP
S-32	Waste Recycle Grinder, Diesel Fired	John Deere	375JD	375 HP
S-33	Emergency Standby Generator #1, Diesel Fired	Caterpillar	3516	2836 HP, 2000 KW
S-34	Emergency Standby Generator #2, Diesel Fired	Caterpillar	3516	2836 HP, 2000 KW
S-35	Internal Combustion <u>4-stroke</u> lean burn engine #4 (digester gas, natural gas)	Waukesha	L7042GL	1160 HP, 800 KW
S-36	Diesel Engine Compressor, portable	John Deere	300	70 HP
S-37	Diesel Engine Pump, portable	Deutz	F4L912	51 HP
S-38	Diesel Engine Pump, portable	Deutz	F4L912	51 HP
S-100	Municipal Wastewater Treatment Plant	Custom	N/A	21.3 MM gal/day calendar month average, dry weather 42 MM gal/day, calendar month average, wet weather
S-110	Preliminary Treatment; Aeration + Settling + Flotation	Custom	Custom	42 MM gal/day
S-120	Primary Treatment; Sedimentation +	Custom	Custom	42 MM gal/day

II. Equipment List (continued)

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
	Flotation			
S-130	Flow Equalization; 2 Tanks, 6.4 MM gal each	Custom	Custom	42 MM gal/day
S-140	Secondary Treatment, 2 Equalization Basins, 4 Aeration Basins	Custom	Custom	42 MM gal/day
S-150	Secondary Clarifiers; 5 Clarifiers	Custom	Custom	42 MM gal/day
S-160	Tertiary Treatment, 14 Filter Cells	Custom	Custom	42 MM gal/day
S-170	Disinfection, UV Light Treatment	Custom	Custom	42 MM gal/day
S-180	Sludge Handling Processes, 4 Belt Filter Presses	Custom	Custom	42 MM gal/day
S-190	Anaerobic Digesters; 4 Digesters	Custom	Custom	42 MM gal/day
<u>S-200</u>	<u>Internal combustion engine #1, 4-stroke lean burn (digester gas, natural gas)</u>	<u>Cummins</u>	<u>QSK60G</u>	<u>1531 HP</u>
<u>S-201</u>	<u>Internal combustion engine #2, 4-stroke lean burn (digester gas, natural gas)</u>	<u>Cummins</u>	<u>QSK60G</u>	<u>1531 HP</u>
<u>S-202</u>	<u>Internal combustion engine #3, 4-stroke lean burn (digester gas, natural gas)</u>	<u>Cummins</u>	<u>QSK60G</u>	<u>1531 HP</u>
<u>S-203</u>	<u>Internal combustion engine #4, 4-stroke lean burn (digester gas, natural gas)</u>	<u>Cummins</u>	<u>QSK60G</u>	<u>1531 HP</u>

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Required Efficiency
A-1	Biofilter 50,000 sq. ft	S-3, and S-4, S-5	<u>BAAQMD Reg. 7-300</u>	None Listed	90%

II. Equipment List (continued)

<u>A-35</u>	<u>Digester Gas Flare</u>	<u>S-190</u>	<u>BAAQMD Reg. 1-301</u>	<u>None Listed</u>	<u>N/A</u>
<u>A-2</u>	<u>Cummins Passive Particulate Filter</u>	<u>S-40</u>	<u>BAAQMD Condition #23495 40 CFR 60.4214(c)</u>	<u>None listed</u>	<u>90%</u>
<u>A-35</u>	<u>Digester Gas Flare</u>	<u>S-190</u>	<u>BAAQMD Reg. 1-301</u>	<u>None Listed</u>	<u>N/A</u>
<u>A-200</u>	<u>Iron Sponge/water removal</u>	<u>S-190</u>	<u>None</u>	<u>None listed</u>	<u>95% of hydrogen sulfide</u>
<u>A-201</u>	<u>Activated carbon/particulate removal</u>	<u>A-200</u>	<u>None</u>	<u>None listed</u>	<u>99.0% of siloxanes, 99.9% of hydrogen sulfide, and 99.9% of non-methane hydrocarbons</u>

Table II C- Exempt Equipment

Each of the following devices is exempt from major facility review permitting pursuant to the requirements of BAAQMD Regulation 2, Rule 6, "Major Facility Review". ~~The applicable exemption for each device is identified in the table below.~~ Registered portable and non-road engines are exempt from BAAQMD Regulation 2, Rule 6 pursuant to BAAQMD Regulation 2-6-113 and 2-6-114, respectively. Equipment that is exempt from BAAQMD permitting requirements does not need to be included in this permit unless the equipment is a significant source, as defined in BAAQMD, Regulation 2-6-239. Any source that must be included in this permit because it is a significant source will be listed in a separate table

<u>S-#</u>	<u>Description</u>	<u>Make or Type</u>	<u>Model</u>	<u>Capacity</u>
<u>S-37</u>	<u>Diesel Engine Pump, portable</u>	<u>Deutz</u>	<u>F4L912</u>	<u>51 HP</u>
<u>S-38</u>	<u>Diesel Engine Pump, portable</u>	<u>Deutz</u>	<u>F4L912</u>	<u>51 HP</u>
<u>S-40</u>	<u>Portable Diesel Powered Compost Mixer</u>	<u>Cummins</u>	<u>QSB67</u>	<u>178 HP</u>

II. Equipment List (continued)

Table II D- Significant Sources

The following source is exempt from the requirement to obtain an authority to construct and permit to operate, but is defined as a significant source pursuant to BAAQMD Regulation 2-6-239.

<u>S-#</u>	<u>Description</u>	<u>Make or Type</u>	<u>Model</u>	<u>Capacity</u>
<u>S-28</u>	<u>Hot water Boilers (2) (natural gas only)</u>	<u>Cleaver Brooks</u>	<u>CB-125</u>	<u>8.4 MM Btu/hr each</u>

III. GENERAL APPLICABLE REQUIREMENTS

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

The dates in parenthesis 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 the EPA Region 9 website. -The address is <http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions>

NOTE:

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

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (11/3/93 5/4/11)	N
SIP Regulation 1	General Provisions and Definitions (11/10/82 6/28/99)	Y
<u>BAAQMD Regulation 2 Rule 1</u>	<u>Permits - General Requirements (4/18/12)</u>	<u>N</u>
<u>SIP Regulation 2 Rule 1</u>	<u>Permits - General Requirements (1/26/99)</u>	<u>Y</u>
<u>BAAQMD 2-1-429</u>	<u>Permits - Federal Emissions Statement (12/21/04)</u>	<u>N</u>
<u>SIP Regulation 2-1-429</u>	<u>Permits - Federal Emissions Statement (4/3/95)</u>	<u>Y</u>

III. General Applicable Requirements

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
<u>SIP Regulation 4</u>	<u>Air Pollution Episode Plan (8/6/90)</u>	<u>Y</u>
<u>SIP Regulation 4</u>	<u>Air Pollution Episode Plan (8/06/90)</u>	<u>Y</u>
BAAQMD Regulation 5	Open Burning (11/2/94 7/09/08)	N
SIP Regulation 5	Open Burning (5/3/84 9/4/98)	Y
BAAQMD Regulation 6 <u>Rule 1</u>	Particulate Matter, General Requirements and Visible Emissions (12/19/90 12/5/07)	N
SIP Regulation 6	Particulate Matter and Visible Emissions (5/3/84 9/4/98)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82 3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y N
<u>BAAQMD Regulation 8, Rule 2</u>	<u>Organic Compounds – Miscellaneous Operations (7/1/09)</u>	<u>N</u>
<u>SIP Regulation 8 Rule 2</u>	<u>Organic Compounds – Miscellaneous Operations (3/22/95)</u>	<u>Y</u>
<u>BAAQMD Regulation 8 Rule 3</u>	<u>Organic Compounds – Architectural Coatings (07/01/09)</u>	<u>N</u>
SIP Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/16/83 01/02/04)	Y
BAAQMD Regulation 8, Rule 4	Organic Compounds-General Solvent and Surface Coating Operations (12/20/95 10/16/02)	Y Y
<u>BAAQMD Regulation 8 Rule 15</u>	<u>Organic Compounds – Emulsified and Liquid Asphalts (06/01/94)</u>	<u>Y</u>
BAAQMD Regulation 8, Rule 16	Organic Compounds-Solvent Cleaning Operation (12/20/95)	Y
<u>BAAQMD Regulation 8 Rule 40</u>	<u>Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/05)</u>	<u>N</u>
<u>SIP Regulation 8 Rule 40</u>	<u>Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (4/19/01)</u>	<u>Y</u>
<u>BAAQMD Regulation 8 Rule 47</u>	<u>Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (6/15/05)</u>	<u>N</u>
<u>SIP Regulation 8 Rule 47</u>	<u>Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (4/26/95)</u>	<u>Y</u>
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	
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 (12/20/95 7/17/02)	N

III. General Applicable Requirements

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
<u>SIP BAAQMD 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 (3/15/95)	N
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (5/3/84 6/8/99)	Y
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants-Hydrogen Sulfide (3/17/82)	N
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (12/4/94 10/7/98)	Y N
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	<u>N</u>
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>California Code of Regulations, Title 17, Section 93115</u>	<u>Airborne Toxic Control Measure for Stationary Compression Ignition Engines</u>	<u>N</u>
<u>California Code of Regulations, Title 17, Section 93116</u>	<u>Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater</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 (7/20/04)</u>	<u>Y</u>
<u>EPA Regulation 40 CFR 82 Subpart F, 40 CFR 82.156</u>	<u>Protection of Stratospheric Ozone (4/13/05)</u>	<u>Y</u>
<u>Subpart F, 40 CFR 82.156</u>	<u>Recycling and Emissions Reductions – Required Practices</u>	<u>Y</u>
<u>Subpart F, 40 CFR 82.161</u>	<u>Recycling and Emissions Reductions – Technician Certification</u>	<u>Y</u>
<u>Subpart F, 40 CFR 82.166</u>	<u>Recycling and Emissions Reductions – Reporting and Recordkeeping Requirements</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 the SIP requirements s is are posted on the EPA Region 9 website ~~at~~. The address is:
<http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions.1>. ~~All other text may be found in the regulations themselves.~~

Table IV – A
Source-specific Applicable Requirements
S-3 COMPOST BAY AND, S-4 STOCKPILES, S-5 SCREENS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter, <u>General Requirements and Visible Emissions</u> (12/49/99/12/5/07)		
<u>6-1-301</u>	Ringelmann Number 1 Limitation	N	
<u>6-1-305</u>	<u>Visible Particles</u>	<u>N</u>	
<u>6-1-401</u>	Appearance of Emissions	Y N	
SIP Regulation 6	<u>Particulate Matter and Visible Emissions (9/4/98)</u>		
<u>6-301</u>	<u>Ringelmann Number 1 Limitation</u>	<u>Y</u>	
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
BAAQMD Regulation 7	<u>Odorous Substances (3/17/82)</u>	N	
<u>7-303</u>	<u>Limit on Odorous Compounds</u>	<u>N</u>	
BAAQMD Regulation 8, Rule 2	<u>Organic Compounds-Miscellaneous Operations (6/15/94/20/05)</u>		

IV. Source-Specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S-3 COMPOST BAY ~~AND~~, S-4 STOCKPILES, S-5 SCREENS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-2-301	Miscellaneous Operations Standards	Y N	
<u>SIP Regulation 8 Rule 2</u>	<u>Organic Compounds - Miscellaneous Operations (3/22/95)</u>		
8-2-301	Miscellaneous Operations	Y	
BAAQMD Condition #12848			
Part 1	Ringelmann limit (basisBasis : BACT, 1-301)	Y Y	
Part 2	Biofilter source test requirement (Basis: Reg 7)	N	
Part 3 2	Throughput limit (basisBasis : eumulative-Cumulative increaseIncrease)	Y	
Part 4 3	Minimize Particulate Emissions (basisBasis : 6-301)	Y Y	
Part 5 4	Minimum processing time/ odor prevention (basisBasis : Reg 7)	N	
Part 6 5	Odor Limitation (basisBasis : 7-301)	N	
Part 7 6	Daily Record Keeping of usage (basisBasis : eumulative Cumulative increaseIncrease)	Y Y	

Table IV – B
Source-specific Applicable Requirements
S-17, S-18 RECLAIMED WATER PONDS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	<u>Organic Compounds-Miscellaneous Operations (6/15/94/20/05)</u>	Y	
8-2-301	Miscellaneous Operations	Y N	
<u>SIP Regulation 8, Rule 2</u>	<u>Organic Compounds - Miscellaneous Operations (3/22/95)</u>		
8-2-301	Miscellaneous Operations	Y	

Table IV – C
Source-specific Applicable Requirements
S-28 HOT WATER BOILERS (2), BURNING NATURAL AND DIGESTER GAS

IV. Source-Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate and Visible Emissions (12/19/90)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particulates	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Particulate Concentration Correction to 6% Oxygen, Dry	Y	
BAAQMD Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operation (6/15/94)		
8-2-301	Miscellaneous Operations Standards	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants -- Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
BAAQMD Regulation 9 Rule 7	Inorganic Gaseous Pollutants-Nox and CO from Industrial, and Commercial Boilers, Steam Generators, and Process Heaters (9/15/93)		
9-7-111	Limited Exemption, Low Fuel Usage	NY	
9-7-304	Low Fuel Usage Requirements	NY	
9-7-304.1	Oxygen concentration limit	NY	
9-7-304.2	Tuning requirement	NY	
9-7-304.3	Emission limits	NY	
BAAQMD Condition #1541			
Part 1	Allowable fuel type (Basis: Cumulative Increase)	Y	
Part 2	Thermal Capacity limitation (Basis: Cumulative Increase)	Y	
Part 3	Annual tune up requirement (Basis: 9-7-304.2)	Y	
Part 4	Recordkeeping (Basis: 2-6-501)	Y	

Table IV – DC
Source-specific Applicable Requirements
S-29, S-31 INTERNAL COMBUSTION ENGINES, 4-STROKE LEAN BURN (CO-GENERATORS) AT 1160 HP.

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6.	<u>Particulate Matter – General Requirements (12/5/07)</u>		

IV. Source-Specific Applicable Requirements

Table IV – DC
Source-specific Applicable Requirements
S-29, S-31 INTERNAL COMBUSTION ENGINES, 4-STROKE LEAN BURN (CO-GENERATORS) AT 1160 HP.

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>Rule 1</u>			
6- 1 -301	Ringelmann No. 1 Limitation	Y N	
6- 1 -305	Visible Particulates	Y N	
6- 1 -310	Particulate Weight Limitation	Y N	
6- 1 -310.3	Particulate concentration corrected to 6% oxygen, dry basis	Y N	
6- 1 -401	Appearance of Emissions	Y N	
<u>SIP Regulation 6</u>	<u>Particulate Matter and Visible Emissions (9/4/98)</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 (6/15/94/20/05)</u>		
8-2-301	Miscellaneous Operations Standards	Y N	
<u>SIP Regulation 8 Rule 2</u>	<u>Organic Compounds – Miscellaneous Operations (3/22/95)</u>		
8-2-301	Miscellaneous Operation Standards	<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>N</u>	
9-1-302	General Emission Limitation	<u>N</u>	
<u>SIP Regulation 9, Rule 1</u>	<u>Inorganic Gaseous Pollutants, Sulfur Dioxide (6/8/99)</u>		
9-1-301	Limitations on Ground Level Concentrations	<u>Y</u>	
9-1-302	General Emission Limitation	<u>Y</u>	
<u>BAAQMD Regulation</u>	<u>Inorganic Gaseous Pollutants, Hydrogen Sulfide (10/6/99)</u>		

IV. Source-Specific Applicable Requirements

Table IV – DC
Source-specific Applicable Requirements
S-29, S-31 INTERNAL COMBUSTION ENGINES, 4-STROKE LEAN BURN (CO-GENERATORS) AT 1160 HP.

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>9, Rule 2</u>			
<u>9-2-301</u>	<u>Limitation on Hydrogen Sulfide</u>	<u>N</u>	
BAAQMD Regulation 9 Rule 8	Nox and CO requirements for Stationary Internal Combustion Engines (<u>4/20/93/25/07</u>)		
9-8-301	Emission Limits – Fossil Derived Fuel Gas	Y <u>N</u>	
9-8-301.2	Nox <u>NOx</u> Emission Limit for Lean Burn Engines	Y <u>N</u>	
9-8-301.3	CO Emission Limit for Lean Burn Engines	Y <u>N</u>	
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y <u>N</u>	
9-8-302.1	Nox <u>NOx</u> Emission Limit for Lean Burn Engines	Y <u>N</u>	
9-8-302.3	CO Emission Limit for Lean Burn Engines	Y <u>N</u>	
<u>9-8-502</u>	<u>Recordkeeping</u>	<u>N</u>	
<u>9-8-502.3</u>	<u>Recordkeeping for Compliance Demonstration</u>	<u>N</u>	
<u>9-8-503</u>	<u>Quarterly Demonstration of Compliance</u>	<u>N</u>	
SIP Regulation 9 Rule 8	<u>NOx and CO requirements for Stationary Internal Combustion Engines (12/15/97)</u>		
<u>9-8-301</u>	<u>Emission Limits - Fossil Derived Fuel Gas</u>	<u>Y</u>	
<u>9-8-301.2</u>	<u>NOx Emission Limit for Lean Burn Engines</u>	<u>Y</u>	
<u>9-8-301.3</u>	<u>CO Emission Limit for Lean Burn Engines</u>	<u>Y</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 Emission Limit for Lean Burn Engines</u>	<u>Y</u>	
<u>9-8-302.3</u>	<u>CO Emission Limit for Lean Burn Engines</u>	<u>Y</u>	
40 CFR Part 63 Subpart A	<u>National Emissions Standards for Hazardous Air Pollutants for Source Categories, Subpart A – General Provisions</u>		
<u>63.1</u>	<u>General Applicability of the General Provisions</u>	<u>Y</u>	
<u>63.2</u>	<u>Definitions</u>	<u>Y</u>	
<u>63.3</u>	<u>Units and Abbreviations</u>	<u>Y</u>	
<u>63.4</u>	<u>Prohibited activities and circumvention</u>	<u>Y</u>	
<u>63.6(a)</u>	<u>Compliance with standards and maintenance requirements - Applicability</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

Table IV – DC
Source-specific Applicable Requirements
S-29, S-31 INTERNAL COMBUSTION ENGINES, 4-STROKE LEAN BURN (CO-GENERATORS) AT 1160 HP.

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6(c)	Compliance dates for existing sources	Y	
63.6(f)(2)	Methods for determining compliance	Y	
63.6(f)(3)	Finding of compliance	Y	
63.6(g)	Use of an alternative nonopacity emission standard	Y	
63.6(i)	Compliance extension procedures and criteria	Y	
63.6(j)	Presidential compliance exemption	Y	
63.10(a)	Recordkeeping and reporting requirements, applicability and general information	Y	
63.10(b)(1)	Record retention	Y	
63.10(f)	Administrator waiver of recordkeeping or reporting requirements	Y	
63.12	State authority and delegations	Y	
63.13	Addresses of air pollution control agencies and EPA Regional Offices	Y	
63.14	Incorporation by reference	Y	
63.15	Availability of information and confidentiality	Y	
40 CFR 63 Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines		
63.6585	Applicability	Y	
63.6585(a)	Applicable to Stationary RICE	Y	
63.6585(c)	Applicable to Area Source of HAPs	Y	
63.6590	Subject to subpart ZZZZ	Y	
63.6590(a)(1)(iii)	Existing stationary RICE at an area source of HAPs	Y	
63.6595	Compliance Schedule to subpart ZZZZ, 40 CFR 63	Y	
63.6595(a)(1)	Comply with the applicable emission limitation and operating limitations no later than May 3, 2013	Y	5/3/2013
63.6603(a)	Emission Limitations and Operating Limitations for Existing Stationary RICE located at an area source of HAP emissions	Y	5/3/2013
Table 2b.2	Compliance with operation Limits approved by the	Y	

IV. Source-Specific Applicable Requirements

Table IV – DC
Source-specific Applicable Requirements
S-29, S-31 INTERNAL COMBUSTION ENGINES, 4-STROKE LEAN BURN (CO-GENERATORS) AT 1160 HP.

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>Administrator</u>		
<u>Table 2d.8</u>	<u>a. Limit concentration of CO to 47 ppmvd at 15% O₂, or b.Reduce CO emissions by 93 percent or more</u>	<u>Y</u>	<u>5/3/2013</u>
<u>63.6605</u>	<u>General Requirements</u>	<u>Y</u>	
<u>63.6605(a)</u>	<u>Compliance with the emission limitations and operating limitations in this subpart at all times</u>	<u>Y</u>	
<u>63.6605(b)</u>	<u>Safety and good air pollution control practices for minimizing emissions</u>	<u>Y</u>	
<u>63.6612</u>	<u>Initial Performance Test or Other Initial Compliance Demonstrations</u>	<u>Y</u>	<u>11/3/2013</u>
<u>63.6615</u>	<u>Subsequent Performance Tests</u>	<u>Y</u>	<u>5/3/2013</u>
<u>Table 3.4</u>	<u>Conduct subsequent source test every 8760 hours or 3 yr, whichever comes first</u>	<u>Y</u>	
<u>63.6620</u>	<u>Performance Tests and Other Procedures</u>	<u>Y</u>	
<u>Table 4.1</u>	<u>Reduce CO Emission. Must measure the O₂ and CO at the inlet and outlet of the control device using Portable CO and O₂ analyzer</u>		
<u>63.6625</u>	<u>Monitoring, Installation, Operation, and Maintenance Requirements</u>	<u>Y</u>	
<u>63.6625(c)</u>	<u>Monitor and record fuel usage daily with separate fuel meters to measure volumetric flow rate of each fuel; Operate RICE in a manner which reasonably minimizes HAP emissions</u>	<u>Y</u>	
<u>63.6625(h)</u>	<u>Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine.</u>	<u>Y</u>	
<u>63.6630</u>	<u>Demonstrate Initial Compliance with Emission Limitations and Operating Limitations</u>	<u>Y</u>	
<u>63.6635</u>	<u>Monitor and Collect Data to Demonstrate Continuous Compliance</u>	<u>Y</u>	
<u>63.6640</u>	<u>Demonstrate Continuous Compliance with the Emission Limitations and Operating Limitations</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

Table IV – DC
Source-specific Applicable Requirements
S-29, S-31 INTERNAL COMBUSTION ENGINES, 4-STROKE LEAN BURN (CO-GENERATORS) AT 1160 HP.

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6645	Notifications Requirements	Y	
63.6645(a)(2)	Submit notification in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply	Y	
63.6650	Compliance Reports	Y	
Table 7.1	Compliance Reports for existing 4SLB stationary RICE >500HP	Y	
63.6655	Recordkeeping	Y	
63.6655(a)	Recordkeeping with the emission and operating limitations	Y	
63.6660	Recordkeeping	Y	
63.6660(a)	Suitable and readily available for expeditious review	Y	
63.6660(b) and 63.6660(c)	Records must be keep for 5 years	Y	
BAAQMD Condition #18867			
Part 1	NOx Limit (Basis: Reg 9-8-301.2, 302.1)	Y N	
Part 2	CO Limit (Basis: Reg 9-8-301.3, 302.1)	Y Y	
Part 3	Flowmeters Required (basis Basis: 1-441, Cumulative Increase)	Y	
Part 4	Periodic Monitoring for NOx, CO (basis Basis: -Reg 2-6-409.2)	Y	
Part 5	Records (basis Basis: Reg 2-6-501)	Y	

Table IV-E
Source-specific Applicable Requirements
S-32 WASTE RECYCLE GRINDER, DIESEL FIRED

IV. Source-Specific Applicable Requirements

Table IV-E
Source-specific Applicable Requirements
S-32 WASTE RECYCLE GRINDER, DIESEL FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-303	Ringelmann No. 2 Limitation		
6-303.1	Internal combustion engines below 1500 cubic inches displacement or standby engines	Y	
6-305	Visible Particulates	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operation (6/15/94)		
8-2-301	Miscellaneous Operations Standards	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Condition #17392		N	
Part 1	Diesel Throughput Limitation (Basis: Cumulative Increase)	Y	
Part 2	Diesel Sulfur Specification (Basis: Cumulative Increase, Reg 9-1-304)	Y	
Part 3	Hours of Operation (Basis: Cumulative Increase)	Y	
Part 4	Recordkeeping (Basis: Reg 1-441)	Y	
Part 5	Visible Emissions Limitations (Basis: Reg 6-301)	Y	

Table IV-FD
Source-specific Applicable Requirements
S-33 STANDBY ENGINE/GENERATOR #51, DIESEL FIRED
S-34 STANDBY ENGINE/GENERATOR #62, DIESEL FIRED

IV. Source-Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements and Visible Emissions (12/19/90 12/5/07)		
6-1-301	Ringelmann No. 1 Limitation	Y N	
6-1-305	Visible Particulates	Y N	
6-1-310	Particulate Weight Limitation	Y N	
6-1-401	Appearance of Emissions	Y N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particulates	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operation (6/15/94 7/20/05)		
8-2-301	Miscellaneous Operations Standards	Y N	
SIP Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operation (3/22/95)		
8-2-301	Miscellaneous Operations Standards	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y N	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y N	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (6/8/99)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9, Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (8/1/01 7/25/07)		

IV. Source-Specific Applicable Requirements

Table IV-FD
Source-specific Applicable Requirements
S-33 STANDBY ENGINE/GENERATOR #51, DIESEL FIRED
S-34 STANDBY ENGINE/GENERATOR #62, DIESEL FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-110.45	Exemption from 9-8 Standards, Emergency Standby Engines	N	
9-8-331	Hours of Operation, Essential Public Service Standby Engines	N	
9-8-530	<u>Emergency Standby Engines; Monitoring and Recordkeeping</u>	<u>N</u>	
BAAQMD Regulation 9, Rule 8	<u>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (12/15/97)</u>		
9-8-110.2	Exemption from 9-8 Standards, fired exclusively with liquid fuels	<u>Y</u>	
CCR, Title 17, Section 93115	<u>ATCM for Stationary Compression Ignition Engines</u>		
93115.5	<u>Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 bhp</u>	<u>N</u>	
93115.5(b)	<u>Fuel requirements for in-use emergency standby stationary diesel-fueled CI engines</u>	<u>N</u>	
93115.5(b)(1)	<u>CARB Diesel Fuel</u>	<u>N</u>	
93115.6	<u>ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards</u>	<u>N</u>	
93115.6(b)	<u>In-Use Emergency Standby Diesel-Fueled CI Engine (> 50 bhp) Operating Requirements and Emission Standards</u>	<u>N</u>	
93115.6(b)(3)	<u>Emission and operation standards</u>	<u>N</u>	
93115.6(b)(3)(A)	<u>Diesel PM Standard and Hours of Operation Limitations</u>	<u>N</u>	
93115.6(b)(3)(A)(1)	<u>General Requirements</u>	<u>N</u>	
93115.6(b)(3)(A)(1)(b)	<u>Operating for maintenance and testing limited to 20 hrs/year when PM emitted at a rate > 0.40 g/bhp-hr, except as provided in 93115.6(b)(3)(A)(2), excluding operating for emergency use and emissions testing</u>	<u>N</u>	
93115.10	<u>ATCM for Stationary CI Engines – Recordkeeping, Reporting, and Monitoring Requirements</u>	<u>N</u>	

IV. Source-Specific Applicable Requirements

Table IV-FD
Source-specific Applicable Requirements
S-33 STANDBY ENGINE/GENERATOR #51, DIESEL FIRED
S-34 STANDBY ENGINE/GENERATOR #62, DIESEL FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.10(e)	<u>Monitoring Equipment</u>	<u>N</u>	
93115.10(e)(1)	<u>Install non-resettable hour meter with minimum display of 9,999 hours</u>	<u>N</u>	
93115.10(g)	<u>Reporting Requirements for Emergency Standby Engines</u>	<u>N</u>	
93115.15	<u>Severability</u>	<u>N</u>	
BAAQMD Condition #1885622820			
part 1	Hours of Operation (Basis: Regulation 9-8-331 , CA CCR 893115)	Y <u>N</u>	
part 2	Definition: Emergency Operation (basis: Regulation 9-8-231, <u>CA CCR 893115</u>)	Y <u>N</u>	
part 3	Definition: Reliability Related Operation (basis: Regulation 9-8-232) <u>Install non-resettable totalizing meter (CA CCR 893115)</u>	Y <u>N</u>	
part 4	Monitoring Equipment (basis: Regulation 9-8-530) <u>Recordkeeping (CA CCR 893115)</u>	Y <u>N</u>	
Part 5	Recordkeeping (basis: Regulation 9-8-530, 1-441) <u>At School and Near School Operation (CA CCR 893115)</u>	Y <u>N</u>	

Table IV - GE
Source-specific Applicable Requirements
S-35 INTERNAL COMBUSTION ENGINE (CO-GENERATOR), 1160 HP.

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	<u>Particulate Matter, General Requirements (12/5/07)</u>		
6-1-301	Ringelmann No. 1 Limitation	Y <u>N</u>	
6-1-305	Visible Particulates	Y <u>N</u>	

IV. Source-Specific Applicable Requirements

Table IV - GE
Source-specific Applicable Requirements
S-35 INTERNAL COMBUSTION ENGINE (CO-GENERATOR), 1160 HP.

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-310	Particulate Weight Limitation	Y N	
6-1-310.3	Particulate concentration corrected to 6% oxygen, dry basis	Y N	
6-1-401	Appearance of Emissions	Y N	
<u>SIP Regulation 6</u>	<u>Particulate Matter and Visible Emissions (9/4/98)</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>	
BAAQMD Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operation (6/15/9420/05)		
8-2-301	Miscellaneous Operations Standards	Y N	
<u>SIP Regulation 8, Rule 2</u>	<u>Organic Compounds-Miscellaneous Operation (3/22/95)</u>		
<u>8-2-301</u>	<u>Miscellaneous Operations</u>	<u>Y</u>	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants — Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y N	
9-1-302	General Emission Limitations	Y N	
<u>9-1-304</u>	<u>Fuel Burning (Liquid and Solid Fuels)</u>	<u>Y</u>	
<u>SIP Regulation 9, Rule 1</u>	<u>Inorganic Gaseous Pollutants, Sulfur Dioxide (6/8/99)</u>		
<u>9-1-301</u>	<u>Limitations on Ground Level Concentrations</u>	<u>Y</u>	
<u>9-1-302</u>	<u>General Emission Limitations</u>	<u>Y</u>	
<u>BAAQMD Regulation 9, Rule 2</u>	<u>Inorganic Gaseous Pollutants, Hydrogen Sulfide (10/6/99)</u>		
<u>9-2-301</u>	<u>Limitation on Hydrogen Sulfide</u>	<u>N</u>	
BAAQMD	NOx and CO requirements for Stationary Internal Combustion		

IV. Source-Specific Applicable Requirements

Table IV - GE
Source-specific Applicable Requirements
S-35 INTERNAL COMBUSTION ENGINE (CO-GENERATOR), 1160 HP.

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Regulation 9 Rule 8	Engines (<u>1/20/937/25/2007</u>)		
9-8-301	Emission Limits - Fossil Derived Fuel Gas	<u>YN</u>	
9-8-301.2	NOx Emission Limit for Lean Burn Engines	<u>YN</u>	
9-8-301.3	CO Emission Limit for Lean Burn Engines	<u>YN</u>	
9-8-302	Emission Limits - Waste Derived Fuel Gas	<u>YN</u>	
9-8-302.1	NOx Emission Limit for Lean Burn Engines	<u>YN</u>	
9-8-302.3	CO Emission Limit for Lean Burn Engines	<u>YN</u>	
<u>9-8-502</u>	<u>Recordkeeping</u>	<u>N</u>	
<u>9-8-502.3</u>	<u>Recordkeeping for Compliance Demonstration</u>	<u>N</u>	
<u>9-8-503</u>	<u>Quarterly Demonstration of Compliance</u>	<u>N</u>	
SIP Regulation 9 Rule 8	<u>NOx and CO requirements for Stationary Internal Combustion Engines (12/15/97)</u>		
<u>9-8-301</u>	<u>Emission Limits - Fossil Derived Fuel Gas</u>	<u>Y</u>	
<u>9-8-301.2</u>	<u>NOx Emission Limit for Lean Burn Engines</u>	<u>Y</u>	
<u>9-8-301.3</u>	<u>CO Emission Limit for Lean Burn Engines</u>	<u>Y</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 Emission Limit for Lean Burn Engines</u>	<u>Y</u>	
<u>9-8-302.3</u>	<u>CO Emission Limit for Lean Burn Engines</u>	<u>Y</u>	
40 CFR Part 63 Subpart A	<u>National Emissions Standards for Hazardous Air Pollutants for Source Categories, Subpart A – General Provisions</u>		
<u>63.1</u>	<u>General Applicability of the General Provisions</u>	<u>Y</u>	
<u>63.2</u>	<u>Definitions</u>	<u>Y</u>	
<u>63.3</u>	<u>Units and Abbreviations</u>	<u>Y</u>	
<u>63.4</u>	<u>Prohibited activities and circumvention</u>	<u>Y</u>	
<u>63.6(a)</u>	<u>Compliance with standards and maintenance requirements - Applicability</u>	<u>Y</u>	
<u>63.6(c)</u>	<u>Compliance dates for existing sources</u>	<u>Y</u>	
<u>63.6(f)(2)</u>	<u>Methods for determining compliance</u>	<u>Y</u>	
<u>63.6(f)(3)</u>	<u>Finding of compliance</u>	<u>Y</u>	
<u>63.6(g)</u>	<u>Use of an alternative nonopacity emission standard</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

Table IV - GE
Source-specific Applicable Requirements
S-35 INTERNAL COMBUSTION ENGINE (CO-GENERATOR), 1160 HP.

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6(i)	Compliance extension procedures and criteria	<u>Y</u>	
63.6(j)	Presidential compliance exemption	<u>Y</u>	
63.10(a)	Recordkeeping and reporting requirements, applicability and general information	<u>Y</u>	
63.10(b)(1)	Record retention	<u>Y</u>	
63.10(f)	Administrator waiver of recordkeeping or reporting requirements	<u>Y</u>	
63.12	State authority and delegations	<u>Y</u>	
63.13	Addresses of air pollution control agencies and EPA Regional Offices	<u>Y</u>	
63.14	Incorporation by reference	<u>Y</u>	
63.15	Availability of information and confidentiality	<u>Y</u>	
40 CFR 63 Subpart <u>ZZZZ</u>	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines		
63.6585	Applicability	<u>Y</u>	
63.6585(a)	Applicable to Stationary RICE	<u>Y</u>	
63.6585(c)	Applicable to Area Source of HAPs	<u>Y</u>	
63.6590	Subject to subpart <u>ZZZZ</u>	<u>Y</u>	
63.6590(a)(1)(iii)	Existing stationary RICE at an area source of HAPs	<u>Y</u>	
63.6595	Compliance Schedule to subpart <u>ZZZZ</u>, 40 CFR 63	<u>Y</u>	
63.6595(a)(1)	Comply with the applicable emission limitation and operating limitations no later than May 3, 2013	<u>Y</u>	5/3/2013
63.6603(a)	Emission Limitations and Operating Limitations for Existing Stationary RICE located at an area source of HAP emissions	<u>Y</u>	5/3/2013
Table 2b.2	Compliance with operation Limits approved by the Administrator	<u>Y</u>	
Table 2d.8	a. Limit concentration of CO to 47 ppmvd at 15% O₂, or b.Reduce CO emissions by 93 percent or more	<u>Y</u>	5/3/2013
63.6605	General Requirements	<u>Y</u>	
63.6605(a)	Compliance with the emission limitations and operating limitations in this subpart at all times	<u>Y</u>	
63.6605(b)	Safety and good air pollution control practices for minimizing emissions	<u>Y</u>	

IV. Source-Specific Applicable Requirements

Table IV - GE
Source-specific Applicable Requirements
S-35 INTERNAL COMBUSTION ENGINE (CO-GENERATOR), 1160 HP.

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>63.6612</u>	<u>Initial Performance Test or Other Initial Compliance Demonstrations</u>	<u>Y</u>	<u>11/3/2013</u>
<u>63.6615</u>	<u>Subsequent Performance Tests</u>	<u>Y</u>	<u>5/3/2013</u>
<u>Table 3.4</u>	<u>Conduct subsequent source test every 8760 hours or 3 yr, whichever comes first</u>	<u>Y</u>	
<u>63.6620</u>	<u>Performance Tests and Other Procedures</u>	<u>Y</u>	
<u>Table 4.1</u>	<u>Reduce CO Emission. Must measure the O₂ and CO at the inlet and outlet of the control device using Portable CO and O₂ analyzer</u>		
<u>63.6625</u>	<u>Monitoring, Installation, Operation, and Maintenance Requirements</u>	<u>Y</u>	
<u>63.6625(c)</u>	<u>Monitor and record fuel usage daily with separate fuel meters to measure volumetric flow rate of each fuel; Operate RICE in a manner which reasonably minimizes HAP emissions</u>	<u>Y</u>	
<u>63.6625(h)</u>	<u>Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine.</u>	<u>Y</u>	
<u>63.6630</u>	<u>Demonstrate Initial Compliance with Emission Limitations and Operating Limitations</u>	<u>Y</u>	
<u>63.6635</u>	<u>Monitor and Collect Data to Demonstrate Continuous Compliance</u>	<u>Y</u>	
<u>63.6640</u>	<u>Demonstrate Continuous Compliance with the Emission Limitations and Operating Limitations</u>	<u>Y</u>	
<u>63.6645</u>	<u>Notifications Requirements</u>	<u>Y</u>	
<u>63.6645(a)(2)</u>	<u>Submit notification in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply</u>	<u>Y</u>	
<u>63.6650</u>	<u>Compliance Reports</u>	<u>Y</u>	
<u>Table 7.1</u>	<u>Compliance Reports for existing 4SLB stationary RICE >500HP</u>	<u>Y</u>	
<u>63.6655</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>63.6655(a)</u>	<u>Recordkeeping with the emission and operating limitations</u>	<u>Y</u>	
<u>63.6660</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>63.6660(a)</u>	<u>Suitable and readily available for expeditious review</u>	<u>Y</u>	
<u>63.6660(b)</u>	<u>Records must be kept for 5 years</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

Table IV - GE
Source-specific Applicable Requirements
S-35 INTERNAL COMBUSTION ENGINE (CO-GENERATOR), 1160 HP.

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
and 63.6660(c)B AAQMD Condition 19750			
BAAQMD Condition 19750 Part 1	Allowable Fuel: Digester Gas and/or Natural Gas with Diesel Pilot (Cumulative Increase)	Y	
Part 1	Part 2 Allowable Fuel: Digester Gas and/or Natural Gas with Diesel Pilot (Cumulative Increase) Thermal Capacity Limitation (Cumulative Increase)	Y	
Part 2	Part 3 Thermal Capacity Limitation (Cumulative Increase) NOx Limits (BACT)	Y	
Part 3	Part 4 NOx Limits (BACT) CO Limits (BACT)	Y	
Part 4	Part 5 CO Limits (BACT) Records (basis: Reg 2-6-501)	Y	
Part 5	Part 6 NMHC Limits (Cumulative Increase) Flowmeters Required (basis: Reg 1-441, Cumulative Increase)	Y	
Part 6	Part 7 Flowmeters Required (basis: Reg 1-441, Cumulative Increase) Initial Performance Test (basis: Reg 2-6-409.2)	Y	
Part 7	Part 8 Quarterly Performance Test Requirement (basis: Reg 9-8) Annual Performance Test Requirement (basis: Reg 1-441)	Y	
Part 8	Part 9 Recordkeeping (basis: Reg 2-6-409.2)	Y	

Table IV-H
Source-specific Applicable Requirements
S-36 DIESEL ENGINE COMPRESSOR, PORTABLE, JOHN DEERE, 70 HP
S-37 DIESEL ENGINE PUMP, PORTABLE, DEUTZ, 51 HP
S-38 DIESEL ENGINE PUMP, DEUTZ, 51 HP

IV. Source-Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 2	Permits—General Requirements (8/1/2001)		
1-220.1	Portable Equipment; Single Site Time Limit	Y	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-303	Ringelmann No. 2 Limitation	Y	
6-305	Visible Particulates	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8, Rule 2	Organic Compounds Miscellaneous Operation (6/15/94)		
8-2-301	Miscellaneous Operations Standards	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9, Rule 8	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (8/1/01)		
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	
BAAQMD Condition #19192			
Part 1	Eligibility Requirements (2-1-220)	Y	
Part 2	Single Site Operating Hours—Limitation (2-1-220)	Y	
Part 3	Noncompliance Reporting (2-1-403)	Y	
Part 4	Limitations on Diesel Fuel Sulfur Content (9-1-304)	Y	
Part 5	Opacity Limitation (6-301, 302)	Y	
Part 6	Public Nuisance (1-301)	Y	
Part 7	Limitation in Operation Near School (2-1-412)	Y	
Part 8	Recordkeeping (1-441, 9-8-530)	Y	

IV. Source-Specific Applicable Requirements

Table IV-~~IF~~
Source-specific Applicable Requirements
S-100 WASTEWATER TREATMENT PLANT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 7</u>	<u>Odorous Substances (3/17/82)</u>		
<u>7-303</u>	<u>Limit on Odorous Compounds</u>	<u>N</u>	
BAAQMD Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operations (6/15/94/20/05)	Y	
8-2-301	Miscellaneous Operations	Y <u>N</u>	
<u>SIP Regulation 8, Rule 2</u>	<u>Organic Compounds-Miscellaneous Operations (3/22/95)</u>		
<u>8-2-301</u>	<u>Miscellaneous Operations</u>	<u>Y</u>	
BAAQMD Condition #947	Odor Abatement (basis: Reg. 7 1-102)	<u>N</u>	
Part 1	Wastewater Throughput (Cumulative Increase)	Y	
Part 2	Consequences of odor complaints (1-301; Public Nuisance)	Y	
Part 3	Recordkeeping (2-6-409.2)	Y	

Table IV-~~JG~~
Source-specific Applicable Requirements
S-110 PRE- TREATMENT, S-120 PRIMARY TREATMENT,
S-130 FLOW EQUALIZATION, S-140 SECONDARY TREATMENT,
S-150 SECONDARY CLARIFIERS, S-160 TERTIARY TREATMENT
S-170 DISINFECTION, S-180 SLUDGE HANDLING PROCESSES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operations (6/15/94/20/05)	Y	

IV. Source-Specific Applicable Requirements

Table IV-~~JG~~
Source-specific Applicable Requirements
S-110 PRE- TREATMENT, S-120 PRIMARY TREATMENT,
S-130 FLOW EQUALIZATION, S-140 SECONDARY TREATMENT,
S-150 SECONDARY CLARIFIERS, S-160 TERTIARY TREATMENT
S-170 DISINFECTION, S-180 SLUDGE HANDLING PROCESSES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-2-301	Miscellaneous Operations	Y	
BAAQMD Condition #947784	Odor Abatement (basis: Reg. 7-1-102)	N	
Part 1	Wastewater Throughput (Cumulative Increase)	Y	
Part 2	Consequences of odor complaints (1-301; Public Nuisance)	Y	
Part 3	Recordkeeping (2-6-409.2)	Y	

Table IV-~~KH~~
Source-specific Applicable Requirements
S-190 ANAEROBIC DIGESTERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operations (6/15/94/20/05)	Y	
8-2-301	Miscellaneous Operations	Y N	
<u>SIP Regulation 8, Rule 2</u>	<u>Organic Compounds-Miscellaneous Operations (3/22/95)</u>		
<u>8-2-301</u>	<u>Miscellaneous Operations</u>	<u>Y</u>	
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants- Hydrogen Sulfide (10/6/99)		
9-2-301	H ₂ S ground-level concentration limitations	N	
BAAQMD Cond 18871			

IV. Source-Specific Applicable Requirements

Table IV-KH
Source-specific Applicable Requirements
S-190 ANAEROBIC DIGESTERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Primary Abatement of Digester Gas (Basis: Reg 1-301)	Y	
Part 2	Secondary Abatement of Digester Gas (Basis: Cumulative Increase)	Y	
Part 3	Digester Gas Sulfide ppm Limit (Basis: Reg 9-1)	Y	
Part 4	Weekly Sulfide Content Monitoring/Recording (Basis: Reg 9-1-302)	Y	
<u>Part 5</u>	<u>Abatement Device Requirements</u>	<u>Y</u>	

Table IV-I
Source-specific Applicable Requirements
S-200 INTERNAL COMBUSTION ENGINE #1, 4 STROKE LEAN BURN
S-201 INTERNAL COMBUSTION ENGINE #2, 4 STROKE LEAN BURN
S-202 INTERNAL COMBUSTION ENGINE #3, 4 STROKE LEAN BURN
S-203 INTERNAL COMBUSTION ENGINE #4, 4 STROKE LEAN BURN

<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 Rule 1</u>	<u>Particulate Matter, General Requirements (12/5/07)</u>		
<u>6-1-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>N</u>	
<u>6-1-305</u>	<u>Visible Particulates</u>	<u>N</u>	
<u>6-1-310</u>	<u>Particulate Weight Limitation</u>	<u>N</u>	
<u>6-1-310.3</u>	<u>Particulate concentration corrected to 6% oxygen, dry basis</u>	<u>N</u>	
<u>6-1-401</u>	<u>Appearance of Emissions</u>	<u>N</u>	
<u>SIP Regulation 6</u>	<u>Particulate Matter and Visible Emissions (9/4/98)</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</u>	<u>Organic Compounds-Miscellaneous Operations (7/20/05)</u>		

IV. Source-Specific Applicable Requirements

Table IV-I
Source-specific Applicable Requirements
S-200 INTERNAL COMBUSTION ENGINE #1, 4 STROKE LEAN BURN
S-201 INTERNAL COMBUSTION ENGINE #2, 4 STROKE LEAN BURN
S-202 INTERNAL COMBUSTION ENGINE #3, 4 STROKE LEAN BURN
S-203 INTERNAL COMBUSTION ENGINE #4, 4 STROKE LEAN BURN

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>Regulation 8, Rule 2</u>			
8-2-301	<u>Miscellaneous Operations Standards</u>	<u>Y</u>	
<u>SIP Regulation 8, Rule 2</u>	<u>Organic Compounds-Miscellaneous Operation (3/22/95)</u>		
8-2-301	<u>Miscellaneous Operations Standards</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>N</u>	
9-1-302	<u>General Emission Limitations</u>	<u>N</u>	
<u>SIP Regulation 9, Rule 1</u>	<u>Inorganic Gaseous Pollutants, Sulfur Dioxide (6/8/99)</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>	
<u>BAAQMD Regulation 9, Rule 8</u>	<u>NOx and CO requirements for Stationary Internal Combustion Engines (7/25/2007)</u>		
9-8-301	<u>Emission Limits - Fossil Derived Fuel Gas</u>	<u>N</u>	
9-8-301.2	<u>NOx Emission Limit for Lean Burn Engines</u>	<u>N</u>	
9-8-301.3	<u>CO Emission Limit for Lean Burn Engines</u>	<u>N</u>	
9-8-302	<u>Emission Limits - Waste Derived Fuel Gas</u>	<u>N</u>	
9-8-302.1	<u>NOx Emission Limit for Lean Burn Engines</u>	<u>N</u>	
9-8-302.3	<u>CO Emission Limit for Lean Burn Engines</u>	<u>N</u>	
9-8-502	<u>Recordkeeping</u>	<u>N</u>	
9-8-502.3	<u>Recordkeeping for Compliance Demonstration</u>	<u>N</u>	
9-8-503	<u>Quarterly Demonstration of Compliance</u>	<u>N</u>	
<u>SIP Regulation 9</u>	<u>NOx and CO requirements for Stationary Internal Combustion Engines (12/15/97)</u>		

IV. Source-Specific Applicable Requirements

Table IV-I
Source-specific Applicable Requirements
S-200 INTERNAL COMBUSTION ENGINE #1, 4 STROKE LEAN BURN
S-201 INTERNAL COMBUSTION ENGINE #2, 4 STROKE LEAN BURN
S-202 INTERNAL COMBUSTION ENGINE #3, 4 STROKE LEAN BURN
S-203 INTERNAL COMBUSTION ENGINE #4, 4 STROKE LEAN BURN

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>Rule 8</u>			
<u>9-8-301</u>	<u>Emission Limits - Fossil Derived Fuel Gas</u>	<u>Y</u>	
<u>9-8-301.2</u>	<u>NOx Emission Limit for Lean Burn Engines</u>	<u>Y</u>	
<u>9-8-301.3</u>	<u>CO Emission Limit for Lean Burn Engines</u>	<u>Y</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 Emission Limit for Lean Burn Engines</u>	<u>Y</u>	
<u>9-8-302.3</u>	<u>CO Emission Limit for Lean Burn Engines</u>	<u>Y</u>	
<u>40 CFR 60, Subpart JJJJ</u>	<u>Standards of Performance for Stationary Spark Ignition Internal Combustion Engines</u>	<u>Y</u>	
<u>60.4233</u>	<u>Emission Standards for Owner or Operator of a Stationary Internal Combustion Engine</u>	<u>Y</u>	
<u>60.4233(e)</u>	<u>Emission Standards for Spark Ignition Engine Greater than 100 HP</u>	<u>Y</u>	
<u>Table 1</u>	<u>NOx, CO, and VOC Emissions Standards for Stationary Non-emergency SI Engines ≥ 100HP, Stationary SI Landfill/Digester Gas Engine and Stationary Emergency Engine >25 HP.</u>	<u>Y</u>	
<u>60.4234</u>	<u>Emissions Standards, Compliance of Emission Standards</u>	<u>Y</u>	
<u>60.4243</u>	<u>Compliance Requirements for Owners/Operator</u>	<u>Y</u>	
<u>60.4243(b)</u>	<u>Demonstrate Compliance with Emission Standards</u>	<u>Y</u>	
<u>60.4244</u>	<u>Test Method and Other Procedure for Owner or Operator</u>	<u>Y</u>	
<u>60.4245</u>	<u>Notification, Reporting, and Recordkeeping Requirements</u>	<u>Y</u>	
<u>60.4245(a)</u>	<u>Recordkeeping Requirements for all Stationary Spark Ignition Internal Combustion Engines</u>	<u>Y</u>	
<u>60.4245(c)</u>	<u>Notification Requirements for Non-certified Stationary Spark Ignition Engines Greater than 500 HP</u>	<u>Y</u>	
<u>60.4245(d)</u>	<u>Submission of Performance Test</u>	<u>Y</u>	
<u>60.4246</u>	<u>General Provisions to Subpart JJJJ</u>	<u>Y</u>	
<u>40 CFR63 (NESHAP)</u>	<u>National Emission Standards for Hazardous Air Pollutants for Source Categories</u>	<u>Y</u>	
<u>Subpart ZZZZ, 40</u>	<u>Stationary Reciprocating Internal Combustion Engine subject to Regulations Under 40 CFR 60 (NSPS)</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

Table IV-I
Source-specific Applicable Requirements
S-200 INTERNAL COMBUSTION ENGINE #1, 4 STROKE LEAN BURN
S-201 INTERNAL COMBUSTION ENGINE #2, 4 STROKE LEAN BURN
S-202 INTERNAL COMBUSTION ENGINE #3, 4 STROKE LEAN BURN
S-203 INTERNAL COMBUSTION ENGINE #4, 4 STROKE LEAN BURN

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
CFR 63.6590(c)(1)			
<u>BAAQMD</u> <u>Cond 24751</u>			
<u>Part 1</u>	<u>Limitation in operation and fuel usage (Basis: Cumulative Increase)</u>	<u>Y</u>	
<u>Part 2</u>	<u>Fuel meter installation (Basis: Cumulative Increase)</u>	<u>Y</u>	
<u>Part 3</u>	<u>POC emissions limit (Basis: BACT)</u>	<u>Y</u>	
<u>Part 4</u>	<u>NOx emissions limitation (Basis: BACT)</u>	<u>Y</u>	
<u>Part 5</u>	<u>CO emissions limitation (Basis: BACT)</u>	<u>Y</u>	
<u>Part 6</u>	<u>Compliance Demonstrate (Basis: BAAQMD Reg 2-1-403, 9-8-5-1, and 9-8-503)</u>	<u>N</u>	
<u>Part 7</u>	<u>Maintenance Requirements (Basis: Regulation 2-1-403)</u>	<u>Y</u>	
<u>Part 8</u>	<u>Reporting Requirement (Basis: BACT/TBACT)</u>	<u>Y</u>	
<u>Part 9</u>	<u>Recordkeeping Requirements (Basis: Cumulative Increase)</u>	<u>Y</u>	

V. SCHEDULE OF COMPLIANCE

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

VI. PERMIT CONDITIONS

~~Any condition that is preceded by an asterisk is not federally enforceable.~~

A. Source Specific Permit Conditions

Condition 784

For S-110, S-120, S-130, S-140, S-150, S-160, and S-170

1. If the District receives more than five confirmed complaints in a week, the City of Santa Rosa WWTP shall take immediate action to abate the odor. [Basis: Regulation 1-301]

***Condition #947**

~~For S-~~For S-100 Wastewater Treatment Plant

1. Flowrate

~~The owner/operator shall ensure that the~~ The owner/operator shall ensure that the total wastewater flow to S-100 shall not exceed 21.3 million gallons per day on a calendar month average during dry weather periods or 42 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~~owner/operator shall employ all measures, practices, or modifications necessary to abate the nuisance. [Basis: Regulation 1-301]

3. Records

VI. Permit Conditions

~~_____~~ To demonstrate compliance with Part 1, above, the ~~Permit Holder~~owner/operator 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 #1541~~

~~For S-28 Hot Water Boilers~~

~~1. S-28 Boilers may be fired on any combination of sewage sludge digester gas or natural gas. (Basis: Cumulative Increase)~~

~~2. Throughput~~

~~_____ Total fuel usage at S-28 boilers shall not exceed 73.58 MM Btu/yr per boiler, gross heating basis. (Basis: Cumulative Increase)~~

~~3. The Permit Holder shall perform a regular inspection and tune up of the combustion section of both boilers to ensure the proper air-to-fuel ratio is being used to maximize efficiency and minimize the production of nitrogen oxides and carbon monoxide, following the procedures of Regulation 9 Rule 7, Section 604 (CARB BARCT Tune Up Procedures). The time interval between boiler tune ups shall not exceed 12 months. (Basis: Regulation 9-7-304.2)~~

~~4. Recordkeeping~~

~~_____ To demonstrate compliance with parts 1,2 and 3, above, the Permit Holder of hot water boilers S-28 shall document the operation and tune ups by keeping the following records:~~

- ~~a. Total monthly records of operation including hours of operation and quantities and type of fuel fired.~~
- ~~b. Time and date of the tune up and the identity of the qualified technician.~~
- ~~c. Stack gas oxygen concentrations (ppm dry) and carbon monoxide~~

VI. Permit Conditions

~~concentrations (ppm dry) before and after any adjustments are made.~~

~~The 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: Reg 2-6-501)~~

Condition #12848

For S-3 Composting Bay, S-4 Stockpiles, ~~S-5 Screens~~, A-1 Biofilter

1. The owner/operator shall ensure that ~~V~~visible particulate emissions from this source ~~shall~~ does not exceed Ringelmann 0.5 or result in fallout on adjacent property in such quantities to cause a public nuisance per Regulation 1-301. (Basis: BACT, Regulation 1-301)
- ~~*2. The facility shall conduct a District approved source test on A-1 Biofilter within 60 days of start up to ensure that this facility is in compliance with Regulation 7, Section 303 for the following compounds: (Basis: Regulation 7)~~
 - ~~a. Dimethylsulfide (CH₃)₂S~~
 - ~~b. Mercaptans, calculated as methylmercaptan CH₃SH~~
 - ~~c. Ammonia NH₃~~

~~The samples shall be collected as prescribed in the Manual of Procedures, Volume IV and submitted to the District.~~
23. The owner/operator shall ensure that the ~~T~~throughput of sludge and yard waste mixture shall not exceed 36,500 tons in any consecutive 12-month period. (Basis: cumulative increase)
34. For the compost that is stockpiled, both in the curing pile and storage piles, the owner/operator shall add water ~~shall be added~~ manually as needed to reduce particulates. (Basis: Regulation 6-1-301)
- 4*5. The owner/operator shall process ~~T~~the stockpile of shredded screen yard waste (i.e., green tree trimmings, green leaves, brushes) ~~shall be processed~~ no later than 5 days from the time they are received to prevent wood decomposition and odors. (Basis: Reg. 7)
- 5*6. If the owner/operator of this facility receives 2 or more Violation Notices from the District for "Public Nuisance" in any consecutive 12 month period, the

VI. Permit Conditions

owner/operator of this facility shall submit to the District within 30 days, an application to modify the Permit to Operate to include the following control measures as applicable or any other that the District deems necessary and appropriate. (Basis: Reg. 7)

- a. Reduce holding time of yard waste from 5 days to 3 days.
- b. Replace biofilter media with new material if it no longer is effective and decomposition has set it, or increase the biofilters thickness so that no odors are detected.

~~67.~~ In order to demonstrate compliance with the above conditions, the owner/operator of sources S-3 and; S-4 and S-5 shall maintain the following records in a District approved log. These records shall be kept on facility and made available for District inspection for a period of five years from the date that the record was made. ~~;~~

(Basis: Cumulative Increase, BAAQMD Regulation 2-6-301)

~~(Basis: Cumulative Increase, BAAQMD Regulation 2-6-501)~~

- a. Daily throughput of sludge/yard waste material being processed ; summarized on a monthly basis.
- b. Cubic yards of stockpiled yard waste received in stockpiled area and removed for processing during a 5 day time period.
- c. Daily hours of operation, summarized on a monthly basis.

Condition 17392

~~For Source S-32 Waste Recycle Grinder, Turbo Diesel Powered, 375 HP~~

- ~~1. The total amount of diesel fuel burned in S-32 recycle grinder diesel engine shall not exceed 2,448 gallons during any consecutive 12 month period. [Basis: Cumulative Increase]~~
- ~~2. S-32 recycle grinder diesel engine shall not burn diesel fuel having a sulfur content greater than 500 ppm (wt basis). [Basis: Cumulative Increase]~~
- ~~3. S-32 recycle grinder diesel engine operation shall not exceed 3 hours in any calendar day. [Basis: Cumulative Increase]~~
- ~~4. Daily records shall be maintained, in a District approved logbook, of the diesel fuel usage and engine hours of operation. The logbook shall be kept onsite~~

VI. Permit Conditions

~~and made available to District Staff upon request. [Basis: Reg 1-441]~~

- ~~5. Visible particulate emissions from this operation shall not exceed a Ringelmann 1.0 during any consecutive three minutes in any hour. [Basis: 6-301]~~

Condition # 2282018856 for S-33 and S-34 Emergency Generators

1. The owner/operator shall not exceed 20 hours per year per engine for reliability-related testing.
[Basis: "Regulation 2-5]
2. The owner/operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, State or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, State or Federal emission limits is not limited.
[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.
[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
 - a. Hours of operation for reliability-related activities (maintenance and testing).
 - b. Hours of operation for emission testing to show compliance with emission limits.
 - c. Hours of operation (emergency).
 - d. For each emergency, the nature of the emergency condition.

VI. Permit Conditions

e. Fuel usage for each engine(s).

[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

5. At School and Near-School Operation:

If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply:

The owner/operator shall not operate each stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:

a. Whenever there is a school sponsored activity (if the engine is located on school grounds)

b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session. "School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property.

[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

~~For S-33 and S-34 Emergency Standby Gensets~~

~~1. Hours of Operation~~

~~The emergency standby engine generators S-33 and S-34 shall only be operated to mitigate emergency conditions or for reliability related activities. Operation for reliability related activities shall not exceed 20 hours in any calendar year per engine. Operation while mitigating emergency conditions is unlimited. (Basis: Reg 9-8-331)~~

~~2. Emergency Conditions is defined as any of the following:~~

~~(Basis: Reg 9-8-231)~~

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

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

~~c. Flood mitigation.~~

~~d. Sewage overflow mitigation.~~

VI. Permit Conditions

- ~~— 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: Reg 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. Each of the emergency standby engines shall be equipped with either a) a non-resettable totalizing meter that measures and records the hours of operation for the engine, or b) a non-resettable fuel usage meter. (Basis: Reg 9-8-530)~~
- ~~5. The emergency standby generators S-33 and S-34 shall only be fired on diesel fuel with sulfur content not to exceed 0.5% by weight. (Basis: Reg 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: Reg 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. Records~~
 - ~~— The following monthly records shall be maintained in a District approved log for at least 2 years and shall be made available for District inspection upon request. (Basis: Reg 9-8-530, 1-441)~~
 - ~~— a. Total hours of operation.~~
 - ~~— b. Hours of operation under emergency conditions and a description of the nature of each emergency condition.~~
 - ~~— c. Monitoring Records noted in Part 4, above.~~

VI. Permit Conditions

~~—d. Diesel sulfur records required in Part 5, above.~~

~~—~~Condition 18867

For Sources S-29 and S-31

1. ~~The owner/operator shall ensure that E~~missions of NOx from this source ~~shall do~~ not exceed ~~140~~
 - a. ~~65~~ ppmv as corrected to 15% oxygen, dry basis ~~when fired with natural gas.~~
 - b. ~~70~~ ppmv as corrected to 15% oxygen, dry basis ~~when fired with digester gas.~~(Basis: BAAQMD Regulation 9-8-301.2, 302.1, cumulative increase)
2. ~~The owner/operator shall ensure that E~~missions of CO from this source ~~shall do~~ not exceed 2000 ppmv as corrected to 15% oxygen, dry basis. (Basis: BAAQMD Regulation 9-8-301.3, 302.3)
3. ~~The owner/operator shall ensure that~~ District approved flowmeters ~~shall be~~ installed on each engine, to measure the respective digester gas and natural gas flow. ~~The owner/operator shall install T~~these flowmeters ~~shall be installed~~ prior to any operation and maintained ~~the flowmeters~~ in good working order. (Basis: ~~BAAQMD~~ Regulation 1-441, cumulative increase)
4. ~~City of Santa Rosa~~ ~~The owner/operator~~ shall ensure that an ~~annual~~ performance test is conducted ~~at least once during each calendar quarter in which a source test is not performed~~ in accordance with the District test procedures to demonstrate compliance with the NOx and CO limits. City of Santa Rosa 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: BAAQMD Regulation 2-6-409.2, BAAQMD Regulation 9-8-503)
5. ~~The owner/operator shall maintain A~~ District ~~approved engine log shall be maintained~~ to record the hours of operation, amount of digester gas and natural gas combusted to produce the power. ~~The owner/operator shall maintain T~~this log ~~shall be maintained~~ for a period of at least five years and shall be made available to District personnel upon request. ~~—~~(Basis: BAAQMD Regulation 2-6-501, cumulative increase)

VI. Permit Conditions

Condition # 18871

For S-190 Anaerobic Digesters

1. ~~The owner/operator shall ensure that E~~missions from S-190 ~~shall be~~ abated at all times by combustion at any or all of the following engines: S-29, S-31, S-35, S-200, S-201, S-202, & S-203 except as specified in Part 2 (Basis: Regulation 1-301)
 2. ~~The owner/operator shall ensure that E~~missions from S-190 ~~shall be~~ abated by A-35 only when equipment failure or other emergencies require the flaring of digester gas. (Basis: Cumulative Increase)
 3. ~~The owner/operator shall ensure that D~~digester gas total sulfur content ~~shall~~ does not exceed 1500 ppm for digester gas going to A-35. (Basis: Reg. 9-1)
 4. To demonstrate compliance with the 1500 ppm limit, the owner/operator shall monitor and record the sulfur content of the digester gas upstream of A-200 at a frequency of at least once every calendar week. If the permit holder can demonstrate 3 months of digester gas sulfur results lower than 1000 ppm the monitoring frequency for sulfur analysis may be reduced to at least once every calendar month. (Basis: Regulation 9-1-302)
 5. ~~The owner/operator shall ensure that the D~~digester gas going to engines S-200 & S-201, S-202, & S-203 ~~shall be~~ abated by A-200 Iron Sponge / Water Removal and then by A-201 Activated Carbon/Particle Removal. The owner/operator shall monitor the H₂S content at least weekly with a portable analyzer and replace the iron sponge material and/or the activated carbon material before the digester gas H₂S content downstream of A-201 reaches 5 ppm.
- ~~1. Emissions from S 190 shall be abated by combustion at any or all of the following sources: S 28, S 29, S 30, and S 31 except as specified in Part 2. (Basis: BAAQMD 1-301)~~
- ~~2. Emissions from S 190 shall be abated by A 35 only when equipment failure or other emergencies require the flaring of digester gas. (Basis: Cumulative~~

VI. Permit Conditions

Increase)

- ~~3. Digester gas total sulfur content shall not exceed 1500 ppm. (Basis: BAAQMD 9-1)~~
- ~~4. To demonstrate compliance with this standard the permit holder shall monitor and record the sulfur content of the digester gas at a frequency of at least once every calendar week. If the permit holder can demonstrate 3 months of digester gas sulfur results lower than 1000 ppm the monitoring frequency for sulfur analysis may be reduced to at least once every calendar month. (Basis: BAAQMD 9-1-302)~~

~~Condition 19192 for sources S-36, S-37, and S-38~~

- ~~S-36 Portable Compressor: Diesel Engine, Make: John Deere, Model: 300 Series, Rated Horsepower: 70 HP.~~
- ~~S-37 Portable Pump: Diesel Engine, Make: Deutz, Model: F4L 912 1441 32, Rated Horsepower: 51 HP.~~
- ~~S-38 Portable Pump: Diesel Engine, Make: Deutz, Model: F4L912, Rated Horsepower: 51 HP.~~

~~Portable Equipment Requirements~~

- ~~1. This mobile equipment shall operate at all times in conformance with the eligibility requirements set forth in BAAQMD Regulation 2-1-220 for portable equipment. [Basis: BAAQMD 2-1-220]~~
- ~~2. If this 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: BAAQMD 2-1-220.10]~~
- ~~3. Any loss of portability per part 2, above, shall be reported to the Director of the Compliance and Enforcement Division no later than 30 days after the loss of its portability. [Basis: BAAQMD 2-1-404]~~

~~Regulatory Compliance Requirement~~

VI. Permit Conditions

- ~~4. S 36, S 37, and S 38 shall only fire diesel fuel containing less than 0.5% by weight sulfur. [Basis: BAAQMD 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: BAAQMD 6-301, 302]~~
- ~~6. Operation of S 36, S 37, and S 38 shall not create emissions in sufficient quantities as to cause a public nuisance under Regulation 1-301. [Basis: BAAQMD 1-301]~~
- ~~7. S 36, S 37, and S 38 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 the intended operation can be made known to the affected public in advance of any usage of the equipment. [Basis: BAAQMD 2-1-412]~~

Recordkeeping Requirements

- ~~8. 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: BAAQMD 1-441]~~
- ~~a. Weekly hours of operation or fuel usage for S 36, S 37, and S 38.~~
- ~~b. Hours of operation or fuel usage shall be totaled on a monthly basis~~

VI. Permit Conditions

Condition 19750

For source S-35, Cogen Engine #4, 1160 BHP, 800 KW

1. ~~The owner/operator shall ensure that This~~the engine shall be~~is~~ fired on digester gas and/or natural gas only.
[Basis: Cumulative Increase]
2. Thermal Capacity Limitation: ~~The owner/operator shall ensure that the Total~~thermal input to S-35 shall~~does~~ not exceed 56,772 MM Btu in any 12-month period. [Basis: Cumulative Increase]
3. ~~The owner/operator shall operate S-35 so that the NOx emissions, calculated as NO₂, shall not do not~~ exceed ~~95-65 ppm @ 15% O₂ when fired with natural gas and 70 ppmv when fired with digester gas mixtures. ppm at 15 percent oxygen, or 0.35 lb/MM Btu fuel input~~ [Basis: ~~BACT, Cumulative Increase~~Regulation 9 Rule 8]
4. ~~The owner/operator shall operate S-35 so that the~~ CO emissions shall~~not do~~ not exceed 410 ppm at 15 percent oxygen, or 0.94 lb/MM Btu fuel input.
[Basis: BACT, Cumulative Increase]
5. ~~The owner/operator shall operate S-35 so that the~~ NMHC emissions, calculated as methane, shall~~not do not~~ exceed 270 ppm at 15 percent oxygen, or 0.35 lb/MM Btu fuel input. [Basis: BACT, Cumulative Increase]
6. ~~The owner/operator shall install~~ District approved flowmeters~~shall be installed~~ on this engine to measure the respective digester gas and natural gas flow. ~~The owner/operator shall install~~ ~~These~~ flowmeters shall be installed prior to any operation and maintained these flowmeters in good working order. [Basis: Cumulative Increase]
- ~~7. To demonstrate compliance with the limits specified in Parts 3, 4, and 5, above, the permit holder shall conduct a District approved performance test within 60 days of startup. [Basis: BAAQMD 2-6-409.2]~~
87. ~~City of Santa Rosa~~The owner/operator shall ensure that a quarterly ~~n annual~~ performance test is conducted on this engine in accordance with District-approved test procedures to demonstrate ongoing compliance with the NO_x, CO and NMHC limits specified in Parts 3, 4, and 5, above.
[Basis: BAAQMD 1-441, BAAQMD 9-8-503]

VI. Permit Conditions

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

—[Basis: Regulation 2-6-409.2]

- a. Monthly records of the quantity of digester gas and natural gas burned at this source.
- b. Monthly records of the total thermal input in BTU.
- 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 Regulation.

Condition 24751

For S-200, S-201, S-202, S-203 – 1537 BHP Engines

1. The owner/operator shall ensure that Cogeneration Engines S-200, 201, 202, 203 are fired only by one of the following fuels: sewage sludge digester gas, natural gas, or a combination of digester gas and natural gas, and in accordance with the following requirements.

- a. At any one time, up to two engines may be running for routine use (non-emergency, non-testing/maintenance). The routine use engine(s) running will fire digester gas, with up to 10% by volume natural gas to smooth out the fuel flow.
- b. The engines not running to produce power will function as emergency use generators.
- c. Each engine may fire natural gas for up to 100 hours/yr for maintenance and testing.
- d. Each engine may fire 100% natural gas during emergency situations.

[Basis: Cumulative Increase]

2. The owner/operator shall install and maintain District approved totalizing, non-resettable hour meters on S-200, S-201, S202, and S-203. The ratio of natural gas to digester gas shall be monitored and recorded for the engine(s) running for routine use. If the gases are mixed centrally and then distributed to the engines, the owner/operator shall install and maintain District approved totalizing non-resettable flow meters for digester gas and natural gas at the mixer and totalizing, non-resettable flow meters for the mixed gas at each

VI. Permit Conditions

- engine.
[Basis: Cumulative Increase]
3. The owner/operator shall ensure that emissions of Precursor Organic Compounds (POC) from S-200, S-201, S-202, and S-203 each do exceed:
a. 0.55 g/bhp-hr when fired with digester gas with up to 10% by volume natural gas.
b. 1.0 g/bhp-hr when fired with 100% natural gas.
[Basis: BACT]
4. The owner/operator shall ensure that emissions of Nitrogen Oxides (NOx) from S-200, S-201, S202, and S-203 each do not exceed 0.75 g/bhp-hr.
[Basis: BACT]
5. The owner/operator shall ensure that emissions of Carbon Monoxide (CO) from S-200, S-201, S-202, S-203 each do not exceed:
a. When fired with 100% natural gas: 2.3 g/bhp-hr source test limit.
b. Within 360 hours of Initial and/or Post Maintenance Start-up: 2.55 g/bhp-hr source test limit.
c. Not to Exceed (NTE) limits: 3.10 g/bhp-hr for ongoing operation. The owner/operator may demonstrate compliance with this part by having a portable analyzer CO concentration at the engine exhaust of not more than 378 ppm of CO, corrected to 15% oxygen, dry basis. An exhaust concentration of more than 378 ppm of CO shall not be deemed a violation of this part, if the owner/operator complies with one of the following requirements within 30 days or measuring the concentration excursion.
i. Conduct a Part 6a Compliance Demonstration Source Test, which demonstrates that CO emissions do not exceed 3.10 g/bhp-hr during the test period, or
ii. Shutdown the engine as soon as possible, but within 30 days and perform a maintenance event to achieve an emission level of less than or equal to 2.55 g/bhp-hr.
6. In order to demonstrate compliance with part 3 through 5, the owner/operator shall conduct a District-approved source testing as follows:
[Basis: 2-1-403, 9-8-501, and 9-8-503]
- a. Compliance Demonstration Source Test (initial, annual and post maintenance source tests:): The owner or operator shall ensure that a District approved compliance demonstration source test is conducted within 360 hours of each initial startup or post maintenance startup of each engine and annually thereafter. Annual source tests shall be conducted no

VI. Permit Conditions

later than 12 calendar months after the previous source test, shall be conducted while the engine is operating at conditions representative of normal operation, and shall determine all item identified in Parts 6a (i-vi), below. The owner or operator shall notify the District Source Test Section at least 7 days in advance of each source test. Compliance demonstration test reports shall be submitted to the Source Test Section within 60 days of the test date. Since these units are similar, for the initial source test, two engines may be tested running digester gas with 10% natural gas and two engines with 100% natural gas. For annual source test, at least two of the four engines shall be tested annually for compliance with parts 3-5 above. One engine may be tested firing digester gas with up to 10% by volume natural and the other engine firing 100% natural gas. The testing shall also satisfy the requirements of 40 CFR 60 subpart JJJJ 60.4244. The compliance demonstration source test shall determine and report the following information:

- i. Total flow rate of gaseous fuel to each IC Engine (dry basis);
 - ii. Concentrations (dry basis) of carbon dioxide (CO₂), nitrogen (N₂), oxygen (O₂), methane (CH₄), and total non-methane organic compounds (NMOC) in the combined gaseous fuel burned in each IC Engine;
 - iii. Exhaust gas flow rate from each IC Engine (dry basis);
 - iv. Concentration (dry basis) of NO_x, CO, CH₄, NMOC, and O₂ in the exhaust gas from each IC Engine;
 - v. Emissions rate of NO_x and CO in units of grams of pollutant/brake horsepower-hour.
 - vi. CO, NO_x and O₂ concentration in the exhaust from each engine shall be measured in tandem using the portable gas analyzer method used for the monthly emission monitoring required by Part 6b
- b. Monthly (Portable Analyzer) Emission Monitoring Test: The owner or operator shall conduct an emissions monitoring test on a calendar month basis on the engines that are running on routine use (non-emergency, non-testing/maintenance). The interval between required monthly monitoring events shall be at least 15 days. This monthly test shall determine concentration of NO_x and CO in units of ppmv @ 15% oxygen using a District approved portable analyzer. All emission monitoring tests shall be conducted with the engine operating at conditions representative of normal operation unless otherwise specified. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations. NO_x and CO reading at 15% oxygen shall be averaged over a consecutive 15-minute period.
- c. The owner or operator may elect to perform a part 6a compliance

VI. Permit Conditions

- demonstration source test in lieu of or in addition to any monthly monitoring test.
- d. The owner/operator shall ensure that monitoring and testing analytical accuracy is within ten percent. [Basis: Source Test Section Policy]
7. Maintenance Requirements: The owner or operator shall conduct an engine maintenance event in accordance with the following maintenance frequencies:
- a. Overhaul Frequency when portable CO analyzer readings exceed the “Action Limit” of 348 @ 15% oxygen (2.85 g/bhp-hr equivalent): In the event that the monthly emission monitoring test indicates emission levels greater than 348 ppm action limit ppm equivalent, the owner or operator may either accept the test result and comply with the maintenance event frequency in this subpart, or elect to perform a compliance demonstration source test to determine the engine emission levels in g/bhp-hr. If a compliance demonstrate source is performed, the results in units of g/bhp-hr shall be used in preference to monthly ppm monitoring results for determining if engine emission levels exceed the action limit.
- b. If the engine emissions are determined to exceed the action limit, the owner or operator shall perform an engine maintenance event to return the engine to the initial CO limit of 2.55 g/bhp-hr within 12 calendar months of the source test date (or monthly monitoring test date) showing CO emissions exceeded the action limit.
- c. Overhaul frequency when CO emissions do not exceed the “Action Limit” of 348 ppm @15% oxygen (2.85 g/bhp-hr equivalent). The owner or operator shall perform an engine maintenance event to return the engine to the initial CO limit of 2.55 g/bhp-hr at a frequency not to exceed 43,000 hours or 60 calendar months of operation, whichever comes first. For the purposes of complying with this part, the engine shall be considered to operate for a calendar month if the engine is operated with digester gas feed for more than 372 hours in any calendar month.
[Basis: Regulation 2-1-403]
8. The owner/operator shall report any non-compliance with the above parts to the Director of the Compliance & Enforcement Division at the time that it is discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at time of occurrence.
[Basis: Cumulative Increase, BACT/TBACT]

VI. Permit Conditions

9. The owner or operator of S-200, S-201, S-202, and S-203 shall keep the following records on site in a District approved log:

- a. Monthly (calendar) records of the amount of each type of fuel combusted at the source and the natural gas/digester gas volumetric ratio at the engine firing to produce power (non-emergency, non-testing-maintenance)
- b. Monthly monitoring test results including, date, averaging time and NO_x, CO concentrations converted to 15% oxygen basis.
- c. Record of all compliance source tests performed including the instrument calibration and comparative handheld monitoring testing results.

These records shall be kept on site and made available for inspection by District personnel for a period of at least 5 years from the date on which a record is made. [Basis Cumulative Increase]

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency column indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown using the following codes: annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), 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 Section I-VI, the preceding sections take precedence over Section VII.

Table VII-A
Applicable Limits and Compliance Monitoring Requirements
S-3 COMPOST BAY, S-4 STOCKPILES, ~~S-5 SCREENS~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	N		Ringelmann No. 1		N	
TSP	<u>BAAQMD Regulation 6-1-301</u>	<u>N</u>		<u>Ringelmann No. 1</u>	<u>N</u>	<u>N</u>	
TSP	<u>SIP Regulation 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1</u>	<u>N</u>	<u>N</u>	
POC	<u>BAAQMD Regulation 8-2-301</u>	<u>N</u>		<u>15 lb/day or 300 ppm total carbon concentration</u>	<u>N</u>	<u>N</u>	
POC	<u>SIP Regulation 8-2-301</u>	<u>Y</u>		<u>15 lb/day or 300 ppm total carbon concentration</u>	<u>N</u>	<u>N</u>	
	BAAQMD Cond #12848, Part 1	Y		Public Nuisance Ringelmann 0.5-No. 1	<u>N</u>	N	

VII. Applicable ~~Emission~~ Limits & Compliance Monitoring Requirements

**Table VII-B
 Applicable Limits and Compliance Monitoring Requirements
 S-17, S-18 Reclaimed Water Ponds**

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

**Table VII-C
 Applicable Limits and Compliance Monitoring Requirements
 S-28 Hot Water Boilers**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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	
Opacity	BAAQMD 6-301	Y		≥ Ringelmann 1.0 for no more than 3 min in any hour	N	N	
PM	BAAQMD 6-310	Y		0.15 gr/dscf at 6% Oxygen	N	N	
Organic Compounds	BAAQMD 8-2-301	Y		≥15 lb/day or ≥300 ppm total carbon concentration	N	N	

VII. Applicable ~~Emission~~-Limits & Compliance Monitoring Requirements

**Table VII-~~DC~~
 Applicable Limits and Compliance Monitoring Requirements
 S-29 & S-31 ~~I-C4~~-STROKE LEAN BURN. ENGINES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM	<u>BAAQMD Regulation 6-1-301</u>	N		<u>Ringelmann No. 1</u>	<u>None</u>	<u>N</u>	
PM	<u>BAAQMD Regulation 6-1-310</u>	N		<u>343 mg per dscm (0.5 grains per dscf) of exhaust gas</u>	<u>None</u>	<u>N</u>	
PM	<u>SIP Regulation 6-301</u>	Y		<u>Ringelmann No. 1</u>	<u>None</u>	<u>N</u>	
PM	<u>SIP Regulation 6-310</u>	Y		<u>343 mg per dscm (0.5 grains per dscf) of exhaust gas</u>	<u>None</u>	<u>N</u>	
SO ₂	<u>BAAQMD Regulation 9-1-301</u>	N		<u>Ground Level Concentration of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours</u>	<u>None</u>	<u>N</u>	
SO ₂	<u>BAAQMD Regulation 9-1-302</u>	N		<u>300 ppm (dry)</u>	<u>None</u>	<u>N</u>	
SO ₂	<u>SIP Regulation 9-1-301</u>	Y		<u>Ground Level Concentration of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours</u>	<u>None</u>	<u>N</u>	
SO ₂	<u>SIP Regulation 9-1-301</u>	Y		<u>300 ppm (dry)</u>	<u>None</u>	<u>N</u>	
NO _x	BAAQMD 9-8-301.2	N		NO _x < 65 <u>40</u> ppmv corrected to 15% oxygen, dry basis <u>when fired with natural gas</u>	Condition 18867 part 44	P/A ³ Q	Source test or alternate monitoring plan
NO _x	BAAQMD	N		NO _x < 140 <u>70</u> ppmv	Condition #,	P/A ³ Q	Source test

VII. Applicable ~~Emission~~-Limits & Compliance Monitoring Requirements

**Table VII-~~DC~~
 Applicable Limits and Compliance Monitoring Requirements
 S-29 & S-31 ~~I-C4~~-STROKE LEAN BURN. ENGINES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	9-8-302.1			corrected to 15% oxygen, dry basis <u>when fired with digester gas</u>	18867 part 4		or alternate monitoring plan
<u>NOx</u>	<u>SIP Regulation 9-8-301.2</u>	<u>Y</u>		<u>NOx<140 ppmv corrected to 15% oxygen, dry basis when fired with natural gas</u>	<u>None</u>	<u>P/A</u>	<u>Source test or alternate monitoring plan</u>
<u>NOx</u>	<u>SIP Regulation 9-8-302.1</u>	<u>Y</u>		<u>NOx<140 ppmv corrected to 15% oxygen, dry basis when fired with digester gas</u>	<u>None</u>	<u>P/A</u>	<u>Source test or alternate monitoring plan</u>
<u>NOx</u>	Condition 18867, part 1	Y		NOx< 140 <u>65</u> ppmv corrected to 15% oxygen, dry basis <u>when fired with natural gas</u>	Condition #, 18867 part 4	P/ <u>A</u> <u>Q</u>	Source test or alternate monitoring plan
<u>NOx</u>	<u>Condition 18867, part 1</u>	<u>Y</u>		<u>NOx<70 ppmv corrected to 15% oxygen, dry basis, when fired with digester gas</u>	<u>Condition #, 18867 part 4</u>	<u>P/Q</u>	<u>Source test or alternate monitoring plan</u>
<u>CO</u>	BAAQMD 9-8-301.3	<u>N</u>		<u>CO<2000 ppmv corrected to 15% oxygen, dry basis</u>	<u>Condition # 18867, part 2</u>	<u>P/A²</u>	<u>Source test or alternate monitoring plan</u>
CO	BAAQMD <u>Regulation 9-8-302.3</u>	N		CO<2000 ppmv corrected to 15% oxygen, dry basis	Condition # 18867, part 2 <u>4</u>	P/ <u>A</u> <u>Q</u>	Source test or alternate monitoring plan
<u>CO</u>	<u>SIP Regulation 9-8-302.3</u>	<u>Y</u>		<u>CO <2000 ppmv corrected to 15% oxygen, dry basis</u>	<u>None</u>	<u>P/A</u>	<u>Source test or alternate monitoring plan</u>
<u>CO</u>	<u>NESHAP 40 CFR</u>	<u>Y</u>	<u>5/3/2013</u>	<u>a. Limit concentration of CO to 47 ppmvd at 15%</u>	<u>None</u>	<u>P/A</u>	<u>Source test or alternate</u>

VII. Applicable ~~Emission~~-Limits & Compliance Monitoring Requirements

Table VII-~~DC~~
Applicable Limits and Compliance Monitoring Requirements
S-29 & S-31 ~~I-C4-STROKE LEAN BURN~~. ENGINES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	63.6603(a)			O₂, or b.Reduce CO emissions by 93 percent or more			monitoring plan
CO	Condition 18867, part 2	Y		CO<2000 ppmv corrected to 15% oxygen, dry basis	Condition # 18867, part 24	P/A ² Q	Source test or alternate monitoring plan

Table VII-E
Applicable Limits and Compliance Monitoring Requirements
S-32 WASTE RECYCLER GRINDER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Input	BAAQMD Cond 17392, Part 1	Y		2,448 gal in any consecutive 12-month period	BAAQMD Cond 17392, Part 4	P/D	Records
TSP	6-301	N		Ringelmann No. 1		N	
	BAAQMD 6-310	Y		0.15 grain/dscf @ 6% O ₂		N	
Diesel Sulfur	BAAQMD Cond 17392 Part 2	Y		500 ppm	BAAQMD Cond 17392 Part 2	N	

Table VII-~~GD~~
Applicable Limits and Compliance Monitoring Requirements
S-33, Standby Engine/Generator #1, Diesel Fired, 2000 KW
S-34, Standby Engine/Generator #2, Diesel Fired, 2000 KW

VII. Applicable ~~Emission~~-Limits & Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Hrs of Operation	CA CCR Section 93115	N	1/1/06	20 hours/calendar year	CA CCR Section 93115, BAAQMD Cond 18856, Part 5	P/E	Records
Diesel Sulfur Content	BAAQMD 9-1-304	N		0.5% by weight		N	
Diesel Sulfur Content	BAAQMD Condition 18856, part 5,	Y		0.5% by weight	BAAQMD Condition 18856, Part 5	P/E	Records
FP PM	BAAQMD Regulation 6-1-310	Y/N		0.15 gr/dscf	None	N	
PM	SIP Regulation 6-310	Y		0.15 gr/dscf	None	N	
Opacity	BAAQMD Regulation 6-1-303	N Y		Ringelmann 2.0 for no more than 3 minutes in any hour	None	N	
Opacity	SIP Regulation 6-303	Y		Ringelmann 2.0 for no more than 3 minutes in any hour	None	N	

VII. Applicable ~~Emission~~ Limits & Compliance Monitoring Requirements

Table VII-~~CE~~
Applicable Limits and Compliance Monitoring Requirements
S-35 Internal Combustion Engine, 4-Stroke Lean Burn, 1160 HP

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Regulation 9-8- 302 301. 42	Y N		140-65 ppmv @ 15% O ₂ , dry when fired with natural gas	BAAQMD Cond 19750, part 8	P/AQ	Source test or alternate monitoring plan Source test
<u>NOx</u>	<u>BAAQMD Regulation 9-8-302.1</u>	<u>N</u>		<u>70 ppmv @ 15% O₂, dry when fired with digester gas</u>	<u>BAAQMD Cond 19750, part 8</u>	<u>P/Q</u>	Source test or alternate monitoring plan
<u>NOx</u>	<u>SIP Regulation 9-8-301.2</u>	<u>Y</u>		<u>140 ppmv @ 15% O₂, dry when fired with natural gas</u>	<u>None</u>	<u>P/A</u>	Source test or alternate monitoring plan
<u>NOx</u>	<u>SIP Regulation 9-8-302.1</u>	<u>Y</u>		<u>140 ppmv @ 15% O₂, dry when fired with digester gas</u>	<u>None</u>	<u>P/A</u>	Source test or alternate monitoring plan
<u>NOx</u>	BAAQMD Condition 19750, part 3	Y		95-65 ppm @ 15% O ₂ when fired with natural gas and 70 ppmv when fired with digester gas, or 0.25 lb/MM Btu fuel	BAAQMD Cond 19750, part 8	P/AQ	Source test or alternate monitoring plan Source test
CO	BAAQMD Regulation 9-8-302.3 and 9-8- 301 301.3	Y N		2000 ppmv @ 15% O ₂ , dry	BAAQMD Cond 19750, part 8	P/AQ	Source test or alternate monitoring plan Source test
<u>CO</u>	<u>SIP Regulation 9-8-302.3 and 9-8-301.3</u>	<u>Y</u>		<u>2000 ppmv @ 15% O₂, dry</u>	<u>BAAQMD Cond 19750, part 8</u>	<u>P/A</u>	Source test or alternate monitoring plan
<u>CO</u>	BAAQMD Cond 19750, part 4	Y		410 ppm @ 15 % O ₂ or 0.94 lb/MM btu fuel	BAAQMD Cond 19750, part 8	P/AQ	Source test or alternate monitoring plan Source test

VII. Applicable ~~Emission~~ Limits & Compliance Monitoring Requirements

**Table VII-~~CE~~
 Applicable Limits and Compliance Monitoring Requirements
 S-35 Internal Combustion Engine, 4-Stroke Lean Burn, 1160 HP**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD 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	
NMHC	BAAQMD Cond 19750, part 5	Y		270 ppm @ 15% Oxygen or 0.35 lb/MM Btu Fuel Input	BAAQMD Cond 19750, part 8	P/AQ	<u>Source test or alternate monitoring plan</u> <u>Source test</u>
	BAAQMD 8-2-301	Y		>15 lb/day or >300 ppm total carbon concentration	None	N	
Opacity	BAAQMD <u>Regulation 6-1-301</u>	Y <u>N</u>		> Ringelmann 1.0 for no more than 3 min in any hour	None	N	
<u>Opacity</u>	<u>SIP Regulation 6-301</u>	<u>Y</u>		<u>> Ringelmann 1.0 for no more than 3 min in any hour</u>	<u>None</u>	<u>N</u>	
<u>FPPM</u>	BAAQMD <u>Regulation 6-1-310</u>	Y <u>N</u>		0.15 gr/dscf	None	N	
<u>PM</u>	<u>SIP Regulation 6-310</u>	<u>Y</u>		<u>0.15 gr/dscf</u>	<u>None</u>	<u>N</u>	
Thermal Throughput	BAAQMD Condition 19750 part 2	Y		56,772 MM Btu in any 12 month period	BAAQMD Cond 19750, part 98	P/D	Records

VII. Applicable ~~Emission~~ Limits & Compliance Monitoring Requirements

Table VII-F
Applicable Limits and Compliance Monitoring Requirements
S-36, Portable Compressor, Diesel Fired, 70 HP
S-37 Portable Pump, Diesel Fired, 51 HP
S-38 Portable Pump, Diesel Fired, 51 HP

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Hours of Operation within 1000 ft of School	BAAQMD Cond 19192, part 7	Y		72 consecutive hours (unless permit is granted for more time)	BAAQMD Cond 19192, parts 8a, 8b	P/W	Records
Diesel Sulfur Content	BAAQMD 9-1-304	N		0.5% by weight	BAAQMD Condition 19192, Part 4	P/E	Records
Diesel Sulfur Content	BAAQMD Condition 19192, part 4,	Y		0.5% by weight	BAAQMD Condition 19192, Part 4	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/dsef		N	

Table VII-DE
Applicable Limits and Compliance Monitoring Requirements
S-100 WASTEWATER TREATMENT PLANT
S-110 PRELIMINARY TREATMENT
S-120 PRIMARY TREATMENT
S-130 FLOW EQUALIZATION
S-140 SECONDARY TREATMENT
S-150 SECONDARY CLARIFIERS
S-160 TERTIARY TREATMENT
S-170 DISINFECTION
S-180 SLUDGE HANDLING PROCESSES

VII. Applicable ~~Emission~~ Limits & Compliance Monitoring Requirements

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

**Table VII-DG
 Applicable Limits and Compliance Monitoring Requirements
 S-190 ANAEROBIC DIGESTERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Organic Compounds	BAAQMD <u>Regulation</u> 8-2-301	Y		Emissions may not exceed 300 ppm total carbon, dry, and 15 lb/day/source	N	N	N
<u>Organic Compounds</u>	<u>SIP Regulation</u> 8-2-301	<u>Y</u>		<u>Emissions may not exceed 300 ppm total carbon, dry, and 15 lb/day/source</u>	<u>N</u>	<u>N</u>	<u>N</u>
<u>Sulfide Digester gas total sulfur content</u>	BAAQMD Cond 18871, <u>Part 3</u>	N		<u>Not to exceed</u> 1500 ppm	BAAQMD Cond 18871 Part 4	P/W	Testing

**Table VII-H
 Applicable Limits and Compliance Monitoring Requirements
 S-200, S-201, S-202, S-203 Internal Combustion Engines
 4-Stroke Lean Burn, 1573 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>
<u>NOx</u>	<u>BAAQMD Regulation</u> 9-8-301.2	<u>N</u>		<u>65 ppmv @ 15% O2, dry when fired with</u>	<u>None</u>	<u>P/Q</u>	<u>Source test or alternate monitoring</u>

VII. Applicable ~~Emission~~-Limits & Compliance Monitoring Requirements

Table VII-H
Applicable Limits and Compliance Monitoring Requirements
S-200, S-201, S-202, S-203 Internal Combustion Engines
4-Stroke Lean Burn, 1573 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>
				natural gas			plan
NOx	<u>BAAQMD Regulation 9-8-302.1</u>	<u>N</u>		<u>70 ppmv @ 15% O₂, dry when fired with digester gas</u>	<u>BAAQMD Regulation 9-8-503</u>	<u>P/Q</u>	<u>Source test or alternate monitoring plan</u>
NOx	<u>SIP Regulation 9-8-301.2</u>	<u>Y</u>		<u>140 ppmv @ 15% O₂, dry when fired with natural gas</u>	<u>BAAQMD Regulation 9-8-503</u>	<u>P/Q</u>	<u>Source test or alternate monitoring plan</u>
NOx	<u>SIP Regulation 9-8-302.1</u>	<u>Y</u>		<u>140 ppmv @ 15% O₂, dry when fired with digester gas</u>	<u>None</u>	<u>P/A</u>	<u>Source test or alternate monitoring plan</u>
NOx	<u>NSPS 40 CFR 60, subpart JJJ</u>	<u>Y</u>		<u>3.0 g/bhp-hr or 220 ppmv @ 15% O₂ dry</u>	<u>NSPS 40 CFR 60.4243(b)(2)(ii)</u>	<u>P/A</u>	<u>Source test or alternate monitoring plan</u>
NOx	<u>BAAQMD Condition 24751, part 4</u>	<u>Y</u>		<u>Do not exceed 0.75 g/hp-hr</u>	<u>BAAQMD Cond 24751, part 6</u>	<u>P/M</u>	<u>Source test or alternate monitoring plan</u>
CO	<u>BAAQMD Regulation 9-8-302.3 and 9-8-301.3</u>	<u>Y</u>		<u>2000 ppmv @ 15% O₂, dry</u>	<u>BAAQMD Cond 24751, part 6</u>	<u>P/Q</u>	<u>Source test or alternate monitoring plan</u>
CO	<u>SIP Regulation 9-8-302.3 and 9-8-301.3</u>	<u>Y</u>		<u>2000 ppmv @ 15% O₂, dry</u>	<u>None</u>	<u>P/A</u>	<u>Source test or alternate monitoring plan</u>
CO	<u>NSPS 40 CFR 60, subpart JJJ</u>	<u>Y</u>		<u>5.0 g/bhp-hr or 610 ppmv @ 15% O₂ dry</u>	<u>40 CFR 60.4244</u>	<u>P/A</u>	<u>Source test or alternate monitoring plan</u>
CO	<u>BAAQMD Condition 24751, part</u>	<u>Y</u>		<u>410 ppm @ 15 % O₂ or 0.94 lb/MM btu fuel</u>	<u>BAAQMD Cond 24751, part 6</u>	<u>P/M</u>	<u>Source test or alternate monitoring</u>

VII. Applicable ~~Emission~~ Limits & Compliance Monitoring Requirements

Table VII-H
Applicable Limits and Compliance Monitoring Requirements
S-200, S-201, S-202, S-203 Internal Combustion Engines
4-Stroke Lean Burn, 1573 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>
	<u>5</u>						<u>plan</u>
<u>SO₂</u>	<u>BAAQMD Regulation 9-1-301</u>	<u>N</u>		<u>GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours</u>	<u>None</u>	<u>N</u>	
<u>SO₂</u>	<u>BAAQMD Regulation 9-1-302</u>	<u>N</u>		<u>300 ppm (dry)</u>	<u>None</u>	<u>N</u>	
<u>SO₂</u>	<u>SIP Regulation 9-1-301</u>	<u>Y</u>		<u>GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours</u>	<u>None</u>	<u>N</u>	
<u>SO₂</u>	<u>SIP Regulation 9-1-302</u>	<u>Y</u>		<u>300 ppm (dry)</u>	<u>None</u>	<u>N</u>	
<u>Organic Compounds</u>	<u>BAAQMD Cond 24751 part 3</u>	<u>Y</u>		<u>0.55 g/bhp-hr when fired with digester gas.</u>	<u>BAAQMD Cond 24751, part 6</u>	<u>P/A</u>	<u>Source test or alternate monitoring plan</u>
<u>Organic Compounds</u>	<u>BAAQMD Cond 24751 part 3</u>	<u>Y</u>		<u>1.0 g/bhp-hr when fired with natural gas</u>	<u>BAAQMD Cond 24751, part 6</u>	<u>P/A</u>	<u>Source test or alternate monitoring plan</u>
<u>Organic Compounds</u>	<u>BAAQMD Regulation 8-2-301</u>	<u>N</u>		<u>>15 lb/day or >300 ppm total carbon concentration</u>	<u>None</u>	<u>N</u>	
<u>Organic Compounds</u>	<u>SIP Regulation 8-2-301</u>	<u>Y</u>		<u>>15 lb/day or >300 ppm total carbon concentration</u>	<u>None</u>	<u>N</u>	
<u>Opacity</u>	<u>BAAQMD Regulation 6-1-301</u>	<u>N</u>		<u>> Ringelmann 1.0 for no more than 3 min in any hour</u>	<u>None</u>	<u>N</u>	
<u>Opacity</u>	<u>SIP</u>	<u>Y</u>		<u>> Ringelmann 1.0</u>	<u>None</u>	<u>N</u>	

VII. Applicable ~~Emission~~ Limits & Compliance Monitoring Requirements

Table VII-H
Applicable Limits and Compliance Monitoring Requirements
S-200, S-201, S-202, S-203 Internal Combustion Engines
4-Stroke Lean Burn, 1573 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>
	<u>Regulation 6-301</u>			<u>for no more than 3 min in any hour</u>			
<u>Particulate</u>	<u>BAAQMD Regulation 6-1-310</u>	<u>Y</u>		<u>0.15 gr/dscf</u>	<u>None</u>	<u>N</u>	
<u>Particulate</u>	<u>SIP Regulation 6-310</u>	<u>Y</u>		<u>0.15 gr/dscf</u>	<u>None</u>	<u>N</u>	

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 6-1-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-1-303	Ringelmann No. 2 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-1-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling <u>or USEPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources</u>
BAAQMD 7-303	Limit on Odorous Compounds	Manual of Procedures, Volume IV, ST-1, ST-8, ST-11, ST-16, ST-22, Sampling of Odorous Compounds
BAAQMD 8-2-301	Miscellaneous Operations	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling or EPA Method 25 or 25A.
BAAQMD 9-1-302	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
BAAQMD 9-8-301.2	Fossil Derived Fuel Gas, NOx Limits for Lean Burn Engines	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling Limit on Odorous Compounds and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-8-301.3	Fossil Derived Fuel Gas, CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-8-302.1	Waste Derived Fuel Gas NOx Limits for Lean Burn Engines	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling Limit on Odorous Compounds and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-8-302.3	Waste Derived Fuel Gas CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond # 18867, Part 1, <u>Cond #19750, Part 3, Cond #24751, Part 4</u>	NOx Limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling Limit on Odorous Compounds and ST-14, Oxygen, Continuous Sampling

VIII. Glossary ~~Permit Conditions (continued)~~

**Table VIII
Test Methods**

BAAQMD Cond # 18867, part 2, Cond#19750, Par 4, Cond #24751, Part 5	CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond # 12848, Part 1	Ringelmann limit	Manual of Procedures, Volume I, Evaluation of Visible Emissions

IX. REVISION HISTORY

July 1, 1997 Application 25837

<u>Date</u>	<u>Application</u>	<u>Type of Revision</u>
<u>7/1/1997</u>	<u>25837</u>	<u>Initial Title V Permit</u>
<u>1/8/2007</u>	<u>3925</u>	<u>Title V Renewal</u>
<u>[Date]</u>	<u>23555</u>	<u>Title V Renewal</u>

IX.X. 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.

CCR

California Code of Regulation

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.

X. Glossary ~~(continued)~~

Federally Enforceable, FE

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 (MACT), and Part 72 (Permits Regulation, Acid Rain), 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.

HAP

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

Major Facility

A facility with potential emissions of: (1) at least 100 tons per year of regulated air pollutants, (2) at least 10 tons per year of any single hazardous air pollutant, and/or (3) at least 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity of hazardous air pollutants 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 Federal Clean Air 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 in 40 CFR Parts 61 and 63

NMHC

Non-methane Hydrocarbons (Same as NMOC)

NMOC

Non-methane Organic Compounds (Same as NMHC)

NO_x

Oxides of nitrogen.

X. Glossary ~~(continued)~~

NSPS

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

NSR

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of pollutants for which criteria have been established in accordance with Section 108 of the Federal Clean Air Act. Mandated by Title I of the Federal Clean Air Act and implemented by 40 CFR Parts 51 and 52 and 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 for the emissions from a new or modified source. Applies to emissions of POC, NO_x, PM₁₀, and SO₂.

Phase II Acid Rain Facility

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

POC

Precursor Organic Compounds

PM

Particulate Matter

PM₁₀

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

PSD

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of those 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.

RICE

Reciprocating Internal Combustion Engines

SIP

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

SO₂

Sulfur dioxide

X. Glossary ~~(continued)~~

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
cfm	=	cubic feet per minute
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m ²	=	square meter
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

| **X. Glossary ~~(continued)~~**

yr = year