

Bay Area Air Quality Management District

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

Final

MAJOR FACILITY REVIEW PERMIT

Issued To:

**Central Contra Costa Sanitary District
Facility # A0907**

Facility Address:

5019 Imhoff Place
Martinez, CA 94553-4392

Mailing Address:

5019 Imhoff Place
Martinez, CA 94553-4392

Responsible Official

Charles W. Batts
Plant Operations Manager
(925) 228-9500

Facility Contact

James M. Kelly
Operations Department
(925) 229-7386

Type of Facility: Municipal Wastewater Treatment

Primary SIC: 4952

Product: Treated Municipal Wastewater

BAAQMD Permit Division Contact:

Randy E. Frazier, P.E.

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Ellen Garvey _____
Ellen Garvey, Executive Officer/Air Pollution Control Officer

January 28, 2000
Date

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I. STANDARD CONDITIONS

A. Administrative Requirements

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

BAAQMD Regulation 1 - General Provisions and Definitions

(as amended by the District Board on 10/7/98);

SIP Regulation 1 - General Provisions and Definitions

(as approved by EPA through 8/27/99);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements

(as amended by the District Board on 10/7/98);

SIP Regulation 2, Rule 1 - Permits, General Requirements

(as approved by EPA through 2/25/99);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review

(as amended by the District Board on 10/7/98);

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration

(as approved by EPA through 2/25/99);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking

(as amended by the District Board on 10/7/98); and

SIP Regulation 2, Rule 4 - Permits, Emissions Banking

(as approved by EPA through 2/25/99).

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

1. This Major Facility Review Permit was issued on January 28, 2000, and expires on December 31, 2004. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than June 30, 2004 and no earlier than December 31, 2003. **If a complete application for renewal has not been submitted in accordance with these deadlines, the facility may not operate after** December 31, 2004. (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, 4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and 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)

I. Standard Conditions

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 of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, 4.11)
6. This permit does not convey any property rights of any sort, nor any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, 4.11)
7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, 4.11)
8. Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District 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 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)

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

Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of entry. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, 4.7)

I. Standard Conditions

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. The first reporting period for this permit shall be January 28, 2000 to June 30, 2000. The report shall be submitted by July 31, 2000. Subsequent reports shall be 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)

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 January 1st to December 31st. The certification shall be submitted by January 31st of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification should 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)

I. Standard Conditions

H. Emergency Provisions

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, 4.8)
2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit caused by conditions beyond the permit holder's reasonable control by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. Any variance granted by the Hearing Board from any term or condition of this permit which lasts longer than 90 days will be subject to EPA approval. (MOP Volume II, Part 3, 4.8)
3. Notwithstanding the foregoing, the granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, 4.8)

I. Severability

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

II. EQUIPMENT

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits.

S-#	Description	Make or Type	Model	Capacity
S-7	Boiler 1, Auxiliary Steam, (natural gas, landfill gas, distillate oil) ME 74139	Cleaver-Brooks	700 HP	28 MM Btu/hr
S-8	Boiler 2, Auxiliary Steam, (natural gas, landfill gas, distillate oil) ME 74140	Cleaver-Brooks	700 HP	28 MM Btu/hr
S-9	Incinerator #1, (sewage sludge, landfill gas, natural gas)	BSP Multiple Rotary Hearth	Custom	2.3 dry ton/hour 27 MM Btu/hr max
S-10	Incinerator #2, (sewage sludge, landfill gas, natural gas)	BSP Multiple Rotary Hearth	Custom	2.3 dry ton/hour 27 MM Btu/hr max
S-11	Lime Storage Silo # 1 w/Pneumatic Loading System	Custom	SEMCO	0.2 ton/hr
S-13	Lime Storage Silo #2 w/Pneumatic Loading System	Custom	SEMCO	0.2 ton/hr
S-14	Lime Transfer System	Custom	Custom	1.0 ton/hr
S-15	Lime Storage Silo #3 w/Pneumatic Loading System	Custom	SEMCO	0.2 ton/hr
S-22	Lime Storage Silo #4 w/Pneumatic Loading System	Custom	SEMCO	0.2 ton/hr
S-24	Centrifuges & Cake Hoppers, four units	Sharples	Custom	3.0 dry ton/hr
S-25	Gasoline Dispensing Facility (G6368), 1 nozzle	Custom	N/A	1000 gallon tank
S-100	Wastewater Treatment Plant - Fugitive Emissions	Secondary Activated Sludge	N/A	11.9 MM gal/hr
S-110	Preliminary Treatment; Influent Structure: Influent Pumping, Bar Screens, Grinders	Custom	N/A	11.9 MM gal/hr

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits.

S-#	Description	Make or Type	Model	Capacity
S-120	Primary Treatment, Aerated Grit Chamber (covered), 4 Primary Sedimentation Tanks; Effluent Channel - Aerated Section - Primary Sediment to Aeration Basin Units	Custom	N/A	11.9 MM gal/hr
S-130	Flow Equalization (equivalent to wastewater holding ponds)	Custom	N/A	11.9 MM gal/hr
S-140	Secondary Treatment; Two Aerated Effluent Channel - Non-aerated Section - Primary Sediment to Aeration Basin Units	Custom	N/A	11.9 MM gal/hr
S-150	Secondary Clarifiers; Aerated Effluent Channel - Aeration Basins to Secondary Clarifiers	Custom	N/A	11.9 MM gal/hr
S-160	Tertiary Treatment; four gravity filtration units/gravity filtration forebay	Custom	N/A	11.9 MM gal/hr
S-170	Disinfection; Aerated Effluent Channel - Secondary Clarifiers to Ultraviolet Disinfection	Custom	N/A	11.9 MM gal/hr
S-180	Sludge Handling Processes; Three Dissolved Air Flotation Units, Four Centrifuges, Two Sludge Blending Tank	Custom	Roots Blower Calgon Filter	3.0 dry ton/hr
S-182	Ash Conveying System	Custom	Frame	0.6 dry ton/hr
S-188	Cogeneration Turbine with Heat Recovery Steam Generator (natural gas, landfill gas)	Solar Centaur	T-4700	49.5 MM Btu/Hr 3500 kW

II. Equipment

Table II B - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-1	Dry Cyclone Scrubber, Multiple Units (12" dia), American Standard Series 348	S-9	BAAQMD Reg 10; NSPS O, 40 CFR 60.152 (a)(1) & (a)(2)	none listed	N/A
A-2	Wet Scrubber, Krebs Medwa/Elbair	S-9	BAAQMD Reg 10; NSPS O, 40 CFR 60.152 (a)(1) & (a)(2)	pressure drop shall not drop below 7.8 inches of water for more than 15 min in any hour	N/A
A-3	Dry Cyclone Scrubber	S-10	BAAQMD Reg 10; NSPS O, 40 CFR 60.152 (a)(1) & (a)(2)	none listed	N/A
A-4	Wet Scrubber, Krebs Medwa/Elbair	S-10	BAAQMD Reg 10; NSPS O, 40 CFR 60.152 (a)(1) & (a)(2)	pressure drop shall not drop below 7.8 inches of water for more than 15 min in any hour	N/A
A-7	Lime Storage Bin Vent Filter	S-11, S-13, S-15, S-22	BAAQMD 6-301, 6-310	none listed	0.15 gr/dscf
A-8	Lime Dust Collector	S-14	BAAQMD 6-301, 6-310	none listed	0.15 gr/dscf
A-14	Packed Tower #1, Ceilcote	S-24, S-180	BAAQMD 7-102	none listed	N/A
A-15	Packed Tower #2, Ceilcote	S-24, S-180	BAAQMD 7-102	none listed	N/A
A-23	Quad Mist Odor Control Scrubber	S-110	BAAQMD 7-102	none listed	N/A
A-24	Quad Mist Odor Control Scrubber	S-110	BAAQMD 7-102	none listed	N/A
A-120	Calvert Mist Odor Control Scrubber	S-120	BAAQMD 7-102	none listed	N/A

II. Equipment

Table II B - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-186	Filter Baghouses	S-182	BAAQMD 6-301, 6-310	none listed	N/A
A-187	Biofilter Odor Control System	S-180	BAAQMD 7-102	none listed	N/A
A-191	Cyclone, Premier	S-182	BAAQMD 6-301, 6-310	none listed	N/A
A-192	Filter Baghouse, Supervac	S-182	BAAQMD 6-301, 6-310	none listed	N/A
A-196	Filter Baghouse	S-182	BAAQMD 6-301, 6-310	none listed	N/A

III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements would 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.

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
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 included in Appendix A of this permit if the SIP requirement is different from the current BAAQMD requirement.

NOTE:

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

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (10/7/98)	N
SIP Regulation 1	General Provisions and Definitions (8/27/99)	N
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 5	Open Burning (11/2/94)	N
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	N
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operations (6/15/94)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (12/20/95)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (12/20/95)	N
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)	Y
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)	N
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (12/4/91)	Y
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

The dates in 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
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is included in Appendix A of this permit if the SIP requirement are different from the current BAAQMD requirements. All other text may be found in the regulations themselves.

Table IV - A
Source-specific Applicable Requirements
S-7, Auxiliary Boiler, Multi-Fuel
S-8, Auxiliary Boiler, Multi-Fuel

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective or Expiration Date
BAAQMD Regulation 1	General Provisions and Definitions (10/7/98)		
1-107	Combination of Emissions	Y	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operations	Y	
6-401	Appearance of Emissions	Y	

IV. Source-specific Applicable Requirements

Table IV - A
Source-specific Applicable Requirements
S-7, Auxiliary Boiler, Multi-Fuel
S-8, Auxiliary Boiler, Multi-Fuel

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective or Expiration Date
BAAQMD Regulation 8 Rule 34	Organic Compounds - Solid Waste Disposal Sites (7/17/96)		
8-34-114	Limited Exemption, Energy Recovery Device and Emission Control System	N	Expires 7/1/2002
8-34-301	Landfill Gas Collection/Emission Control Requirements	N	
8-34-301.2	Leakage from pipes, valves, fittings,	N	
8-34-301.4	Energy Recovery Device destruction efficiency	N	7/1/2002
8-34-412	Compliance Demonstration Test	N	7/1/2002
8-34-413	Performance Test Report	N	7/1/2002
8-34-501	Operating Records	N	
8-34-501.2	Records of emission control system downtime	N	
8-34-501.3	Continuous temperature monitoring	N	7/1/2002
8-34-501.4	Testing records	N	7/1/2002
8-34-501.6	Leaks	N	
8-34-501.10	Continuous gas flow records	N	7/1/2002
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	N	
8-34-504	Portable Hydrocarbon Detector	N	
8-34-507	Continuous Temperature Monitor and Recorder	N	7/1/2002
8-34-508	Gas Flow Meter	N	
8-34-601	Determination of Emissions	N	
8-34-602	Inspection Procedures	N	
SIP Regulation 8 Rule 34	Organic Compounds - Solid Waste Disposal Sites (6/15/94)	Y	
8-34-114	Limited Exemption, Energy Recovery Device and Emission Control System	Y	
8-34-301.1	Landfill Gas Collection System – Leak Requirements	Y	
8-34-301.4	Energy Recovery Device Destruction Efficiency	Y	

IV. Source-specific Applicable Requirements

Table IV - A
Source-specific Applicable Requirements
S-7, Auxiliary Boiler, Multi-Fuel
S-8, Auxiliary Boiler, Multi-Fuel

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective or Expiration Date
8-34-501	Operating Records	Y	
8-34-503	Landfill Gas Collection/Emission Control Leak Testing – Frequency	Y	
8-34-601	Determination of Emissions	Y	
8-34-602	Inspection Procedures	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 Limitation	Y	
9-1-304	Fuel Burning (Liquid & Solid Fuels)	Y	
BAAQMD Regulation 9 Rule 2	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)		
9-2-301	Limitations on Hydrogen Sulfide Emissions	N	
BAAQMD Regulation 9, Rule 7	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (9/15/93)		
9-7-301	Emission Limits - Gaseous Fuel	Y	
9-7-301.1	NOx	Y	
9-7-301.2	CO	Y	
9-7-302	Emission Limits – Non-Gaseous Fuel	Y	
9-7-302.1	NOx	Y	
9-7-302.2	CO	Y	
9-7-305	Emission Limits - Non Gaseous Fuel Natural Gas Curtailment; NOx & CO Limits	Y	
9-7-306	Emission Limits - Non-Gaseous Fuel - Equipment Testing; NOx and CO Limits	Y	
9-7-403	Initial Demonstration of Compliance	Y	
9-7-503	Records	Y	

IV. Source-specific Applicable Requirements

Table IV - A
Source-specific Applicable Requirements
S-7, Auxiliary Boiler, Multi-Fuel
S-8, Auxiliary Boiler, Multi-Fuel

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective or Expiration Date
9-7-603	Compliance Determination	Y	
BAAQMD Condition #16562			
part 1	Firing rate limitations (Cumulative Increase)	Y	
part 2	Exhaust gas SO ₂ emission limitations/monitoring & recordkeeping (BAAQMD 9-1-302)	Y	
part 3	Exhaust gas NO _x emission limitations – gaseous fuels firing (BAAQMD 9-7-301.1)	Y	
part 4	Exhaust gas NO _x emission limitations – distillate oil fuels firing (BAAQMD 9-7-302.1)	Y	
part 5	Exhaust gas CO emission limitations (BAAQMD 9-7-301.2, 302.2)	Y	
part 6	Distillate oil sulfur content specification (Cumulative Increase)	Y	
part 7	Initial compliance source test (Cumulative Increase)	Y	
part 8	Landfill gas – Organic Destruction Efficiencies (BAAQMD 8-34-114)	Y	
part 9	Recordkeeping (Cumulative Increase, BAAQMD 9-1-304)	Y	
part 9a	Monthly fuel consumption records (Cumulative Increase)	Y	
part 9b	Monthly records – distillate oil sulfur content (BAAQMD 9-1-304)	Y	
part 9c	Monthly records – to be totaled for preceding 12 months (Cumulative Increase)	Y	
part 9d	Records retention (Cumulative Increase)	Y	
part 10	POC abatement requirement (Reg 8-34-301.4)	N	7/1/2002

IV. Source-specific Applicable Requirements

Table IV - B
Source-specific Applicable Requirements
S-9 – FURNACE 1, SEWAGE SLUDGE (INCINERATOR)
S-10 – FURNACE 2, SEWAGE SLUDGE (INCINERATOR)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective or Expiration Date
BAAQMD Regulation 1	General Provisions and Definitions (10/7/98)		
1-107	Combination of Emissions	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	Y	
6-301	Ringelmann No. 1 Limitation	Y	
6-302	Opacity Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.1	Incineration or Salvage Operations	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8 Rule 34	Organic Compounds - Solid Waste Disposal Sites (7/17/96)		
8-34-114	Energy Recovery Device destruction efficiency	N	Expires 7/1/2002
8-34-301	Landfill Gas Collection/Emission Control Requirements	N	
8-34-301.2	Leakage from pipes, valves, fittings,	N	
8-34-301.4	Energy Recovery Device destruction efficiency	N	7/1/2002
8-34-412	Compliance Demonstration Test	N	7/1/2002
8-34-413	Performance Test Report	N	7/1/2002
8-34-501	Operating Records	N	
8-34-501.2	Records of emission control system downtime	N	
8-34-501.3	Continuous temperature monitoring	N	7/1/2002
8-34-501.4	Testing records	N	7/1/2002
8-34-501.6	Leaks	N	

IV. Source-specific Applicable Requirements

Table IV - B
Source-specific Applicable Requirements
S-9 – FURNACE 1, SEWAGE SLUDGE (INCINERATOR)
S-10 – FURNACE 2, SEWAGE SLUDGE (INCINERATOR)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective or Expiration Date
8-34-501.10	Continuous gas flow records	N	7/1/2002
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	N	
8-34-504	Portable Hydrocarbon Detector	N	
8-34-507	Continuous Temperature Monitor and Recorder	N	7/1/2002
8-34-508	Gas Flow Meter	N	
8-34-601	Determination of Emissions	N	
8-34-602	Inspection Procedures	N	
SIP Regulation 8 Rule 34	Organic Compounds - Solid Waste Disposal Sites (7/17/96)		
8-34-114	Landfill Gas Collection/Emission Control Requirements	Y	
8-34-301.1	Landfill Gas Collection System – Leak Requirements	Y	
8-34-501	Operating Records	Y	
8-34-503	Landfill Gas Collection/Emission Control Leak Testing – Frequency	Y	
8-34-601	Determination of Emissions	Y	
8-34-602	Inspection Procedures	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 & Solid Fuels)	Y	
9-1-502	Emission Monitoring Requirements	Y	
BAAQMD Regulation 9 Rule 2	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)		
9-2-301	Limitations on Hydrogen Sulfide Emissions	N	
BAAQMD Regulation 11,	Hazardous Pollutants - Lead (3/17/82)		

IV. Source-specific Applicable Requirements

Table IV - B
Source-specific Applicable Requirements
S-9 – FURNACE 1, SEWAGE SLUDGE (INCINERATOR)
S-10 – FURNACE 2, SEWAGE SLUDGE (INCINERATOR)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective or Expiration Date
Rule 1			
11-1-301	Daily Limitation	Y	
11-1-302	Ground Level Concentration Limit Without Background	Y	
BAAQMD Regulation 11, Rule 3	Hazardous Pollutants - Beryllium (3/17/82)		
11-3-301	Emission Limitation – Beryllium	N	
11-3-302	Burning Beryllium by Incineration	N	
BAAQMD Regulation 11, Rule 5	Hazardous Pollutants - Mercury		
11-5-302	Emissions from Sludge Incineration Plants	N	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
40 CFR 60	Standards of Performance for New Stationary Sources (12/23/71)	Y	
Subpart A	General Provisions	Y	
60.4(b)	Reports to EPA and District	Y	
60.7	Notification and Recordkeeping	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.12	Circumvention	Y	
60.13(a)	Monitoring requirements	Y	
60.13(b)	Installation prior to performance tests	Y	
60.13(c)	COMS data for compliance with opacity standard	Y	
60.13(e)	Continuous operation	Y	

IV. Source-specific Applicable Requirements

Table IV - B
Source-specific Applicable Requirements
S-9 – FURNACE 1, SEWAGE SLUDGE (INCINERATOR)
S-10 – FURNACE 2, SEWAGE SLUDGE (INCINERATOR)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective or Expiration Date
60.13(g)	Combined effluents	Y	
60.13(h)	Reduction of data	Y	
60.13(i)	Alternative monitoring	Y	
60.19	General notification and reporting requirements	Y	

NSPS – 40 CFR 60 Subpart O	Standards of Performance for Sewage Treatment Plants		
60.152(a)(1)	Particulate Emission Standards	Y	
60.152(a)(2)	Opacity Standards	Y	
60.153	Monitoring of Operations	Y	
60.153(a)(1)	Install and operate sludge flow measurement device	Y	
60.153(a)(2)	Access to well-mixed sludge sample	Y	
60.153(a)(3)	Install and operate sludge weighing device	Y	
60.153(b)(1)	Install and operate gas scrubber pressure drop monitor	Y	
60.153(b)(2)	Install and operate exhaust gas O2 content	Y	
60.153(b)(3)	Install and operate hearth temp measurement device(s)	Y	
60.153(b)(4)	Install and operate fuel flow device(s)	Y	
60.153(b)(5)	Sample sludge feed daily	Y	
60.153(c)(1)	Records – gas scrubber pressure drop	Y	
60.153(c)(2)	Records – exhaust gas O2 content	Y	
60.153(c)(3)	Records – sludge charge rate	Y	
60.155(a)	Reports – Semi-annual	Y	
60.155(a)(1)	Reports – Scrubber Pressure Drop	Y	
60.155(a)(2)	Reports – Exhaust Gas Oxygen Content	Y	
60.155(b)	Reports – Exhaust Gas Oxygen Content – O2 over performance test level	Y	
60.155(b)(1)	Reports – Scrubber Pressure Drop	Y	
60.155(b)(2)	Reports – Exhaust Gas Oxygen Content	Y	
60.155(b)(3)	Reports – Hearth Temperatures	Y	

IV. Source-specific Applicable Requirements

Table IV - B
Source-specific Applicable Requirements
S-9 – FURNACE 1, SEWAGE SLUDGE (INCINERATOR)
S-10 – FURNACE 2, SEWAGE SLUDGE (INCINERATOR)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective or Expiration Date
60.155(b)(4)	Reports – Sludge Charge Rate	Y	
60.155(b)(5)	Reports – Incinerator Fuel Use	Y	
60.155(b)(6)	Reports – Moisture & Volatile Solids	Y	

NSPS Appendix B	Performance Specifications		
Performance Specification 1	Specifications and test procedures for opacity continuous emission monitoring systems in stationary sources	Y	
40 CFR 61 Subpart C	National Emission Standard for Beryllium		
61.32	Beryllium Emissions not to exceed 10 g Be/24 hr period	Y	
61.33(a)	Stack Sampling-required methods	Y	
61.33(b)	Stack sampling – Notification of Administrator	Y	
61.33(c)	Source test sampling periods	Y	
61.33(d)	Sampling analysis instructions	Y	
61.33(e)	Retention of emission test reports	Y	
40 CFR 61 Subpart E	National Emission Standard for Mercury		
61.52(b)	Mercury Emission Standard	Y	
61.53(d)(1)	Stack sampling required	Y	
61.53(d)(2)	Method 101A instructions	Y	
61.53(d)(3)	Stack sampling – Notification of Administrator	Y	
61.53(d)(4)	Source test sampling periods	Y	
61.53(d)(5)	Sampling analysis instruction	Y	
61.53(d)(6)	Retention of emission test reports	Y	
61.54(a)	Alternate compliance demonstration – Sludge Sampling	Y	
61.54(a)(1,2)	Sludge test timing	Y	
61.54(b)	Administrator notification of sludge test	Y	
61.54 (c)	Sludge sampling instructions	Y	

IV. Source-specific Applicable Requirements

Table IV - B
Source-specific Applicable Requirements
S-9 – FURNACE 1, SEWAGE SLUDGE (INCINERATOR)
S-10 – FURNACE 2, SEWAGE SLUDGE (INCINERATOR)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective or Expiration Date
61.54 (d)	Mercury emissions calculation method	Y	
61.54 (e)	No operational changes allowed	Y	
61.54 (f)	Timing of sludge mercury analysis	Y	
61.54 (g)	Retention of mercury emission data	Y	

BAAQMD Cond 16563			
part 1	Solid fuel to be derived from CCCSD only (Cumulative Increase)	Y	
part 2	Solid fuel throughput (Cumulative Increase)	Y	
Part 3	Particulate emissions (mass/throughput) limitation (40 CFR 60.152(a)(1), NSPS)	Y	
part 4	Particulate emissions (exhaust grain loading) limitation (BAAQMD 6-310)	Y	
part 5	Visible emissions limitation – opacity (40 CFR 60.152(a)(2), (BAAQMD 6-302)	Y	
part 6	Beryllium emissions limitation (BAAQMD 11-3-301)	Y	
part 7	Total mercury emissions limitation (BAAQMD 11-5-302, 40 CFR 61.52)	Y	
part 8	Mercury emissions enhanced monitoring trigger criteria (40 CFR 61.55(a))	Y	
part 9	Lead emissions limitation (BAAQMD 11-1)	Y	
part 10	Initial compliance source test requirements(BAAQMD 2-6-501)	Y	
part 10a	Sewage sludge sampling/analysis (40 CFR 60.154)	Y	
part 10b	Incinerator exhaust sampling/analysis (40 CFR 60.154(d)(3))	Y	
part 10c	Incinerator exhaust metals sampling/testing (40 CFR 60.154(d)(3)(I))	Y	
part 11	Ongoing emissions monitoring – SO2 limits (BAAQMD 9-1-302)	Y	
part 11a	Monitoring requirements – solid fuels (BAAQMD 9-1-304)	Y	

IV. Source-specific Applicable Requirements

Table IV - B
Source-specific Applicable Requirements
S-9 – FURNACE 1, SEWAGE SLUDGE (INCINERATOR)
S-10 – FURNACE 2, SEWAGE SLUDGE (INCINERATOR)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective or Expiration Date
part 11b	Monitoring requirements – gaseous fuels (BAAQMD 9-1-302)	Y	
Part 12	Organic emissions abatement efficiency – Landfill Gas Combustion (BAAQMD 8-34-114)	Y	
part 13	Ongoing Monitoring – NSPS Requirements (40 CFR 60.153)	Y	
part 13a	Feed flowrate monitoring (40 CFR 60.153(a)(1))	Y	
part 13b	Wet scrubber pressure drop monitoring (40 CFR 60.153(b)(1))	Y	
part 13c	Incinerator oxygen content monitoring (40 CFR 60.153(b)(2))	Y	
part 13d	Incinerator temperature profile monitoring (40 CFR 60.153(b)(3))	Y	
part 13e	Incinerator fuel flow monitoring (40 CFR 60.153(b)(4))	Y	
part 13f	Sewage incinerator feed sampling/analysis (40 CFR 60.153(b)(5))	Y	
part 13g	Daily records – solids feed to incinerator (Cumulative Increase)	Y	
part 13h	Records retention (Cumulative Increase)	Y	
part 14	Reporting Requirements(40 CFR 60.155)	Y	
part 14a	Average scrubber pressure drop (40 CFR 60.155(a)(1)(i) & (ii))	Y	
part 14b	Average oxygen content (40 CFR 60.155(a)(2))	Y	
part 14c	Recent reports as requested by APCO (40 CFR 60.155(a)(3), (4), (5), (6))	Y	
part 15	POC abatement requirement (Reg 8-34-301.4)	N	7/1/2002

IV. Source-specific Applicable Requirements

Table IV - C
Source-specific Applicable Requirements
S-11 - LIME STORAGE SILO W/PNEUMATIC LOADING SYSTEM
S-13 - LIME STORAGE SILO W/PNEUMATIC LOADING SYSTEM
S-15 - LIME STORAGE SILO W/PNEUMATIC LOADING SYSTEM
S-22 - LIME STORAGE SILO W/PNEUMATIC LOADING SYSTEM

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)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Cond 16692			
Part 1	Abatement Requirement (basis: Regulation 2-1-403)	Y	
Part 2	Visible Emissions Monitoring (basis: Regulation 2-6-501)	Y	
Part 3	Visible Emissions Monitoring Records (basis: Regulation 2-6-501)	Y	

Table IV - D
Source-specific Applicable Requirements
S-14 - LIME TRANSFER SYSTEM

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)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	

IV. Source-specific Applicable Requirements

**Table IV - D
 Source-specific Applicable Requirements
 S-14 - LIME TRANSFER SYSTEM**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Cond 16693			
Part 1	Abatement Requirement (basis: Regulation 2-1-403)	Y	
Part 2	Visible Emissions Monitoring (basis: Regulation 2-6-501)	Y	
Part 3	Visible Emissions Monitoring Records (basis: Regulation 2-6-501)	Y	

**Table IV - E
 Source-specific Applicable Requirements
 S-24 – CENTRIFUGES AND CAKE HOPPERS**

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)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9 Rule 2	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)		
9-2-301	Limitations on Hydrogen Sulfide Emissions	N	

IV. Source-specific Applicable Requirements

Table IV - E
Source-specific Applicable Requirements
S-24 – CENTRIFUGES AND CAKE HOPPERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Cond 1716			
part 1	Stack Outlet - H2S Concentration Limits (Reg 1-301; Public Nuisance)	N	
part 2	Consequences of odor complaints (Reg 1-301; Public Nuisance)	N	
part 3	Use of Abatement Equipment Required during S-24 Operation (Reg 1-301; Public Nuisance)	N	

Table IV – F
Source-specific Applicable Requirements
S-25 (G6368) GASOLINE DISPENSING FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 7	Organic Compounds - Gasoline Dispensing Facilities		
8-7-301	Phase I Requirements	Y	
8-7-302	Phase II Requirements	Y	
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	Y	
8-7-308	Operating Practices	Y	
BAAQMD Cond 7523			
part 1	Gasoline throughput (Toxic Risk Management Policy)	N	
part 2	Gasoline throughput monitoring (Toxic Risk Management Policy)	N	

IV. Source-specific Applicable Requirements

Table IV - G
Source-specific Applicable Requirements
S-100 - MUNICIPAL WASTEWATER TREATMENT PLANT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Cond 193			
part 1	Consequences of odor complaints (Reg 1-301; Public Nuisance)	N	

IV. Source-specific Applicable Requirements

Table IV - H
Source-specific Applicable Requirements
S-110- PRELIMINARY TREATMENT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Cond 7124			
part 1	Abatement of Odorous Emissions Required (Reg 1-301; Public Nuisance)	N	
part 2	Consequences of Odorous Emissions (Reg 1-301; Public Nuisance)	N	

Table IV - I
Source-specific Applicable Requirements
S-120 – PRIMARY TREATMENT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Cond 7046			
part 1	Abatement of Malodorous Compounds by A-120 Required (Reg 1-301; Public Nuisance)	N	

Table IV - J
Source-specific Applicable Requirements
S-180 – SLUDGE HANDLING PROCESSES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Cond 13082			

IV. Source-specific Applicable Requirements

Table IV - J
Source-specific Applicable Requirements
S-180 – SLUDGE HANDLING PROCESSES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
part 1	Abatement of Odorous Emissions Required (Reg 1-301; Public Nuisance)	N	
part 2	Use of Abatement Equipment Required during S-180 Operation (Reg 1-301; Public Nuisance)	N	

Table IV - K
Source-specific Applicable Requirements
S-182 – ASH CONVEYING SYSTEM

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)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Cond 7055			
part 1	Particulate Emissions to be Abated (Cumulative Increase)	Y	
part 2	Maintenance (Cumulative Increase)	Y	
part 3	Manufacturer's Specifications (Cumulative Increase)	Y	
part 4	Visible Emissions Monitoring (Regulation 2-6-501)	Y	
part 5	Visible Emissions Monitoring Records (Regulation 2-6-501)	Y	

IV. Source-specific Applicable Requirements

Table IV - L
Source-specific Applicable Requirements
S-188 – COGENERATION TURBINE, 3500 kW
NATURAL GAS AND LANDFILL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective or Expiration Date
BAAQMD Regulation 1	General Provisions and Definitions (10/7/98)		
1-107	Combination of Emissions	Y	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
BAAQMD Regulation 8 Rule 34	Organic Compounds - Solid Waste Disposal Sites (7/17/96)		
8-34-114	Energy Recovery Device destruction efficiency	N	Expires 7/1/2002
8-34-301	Landfill Gas Collection/Emission Control Requirements		
8-34-301.2	Leakage from pipes, valves, fittings,	N	
8-34-301.4	Energy Recovery Device destruction efficiency	N	7/1/2002
8-34-412	Compliance Demonstration Test	N	7/1/2002
8-34-413	Performance Test Report	N	7/1/2002
8-34-501	Operating Records	N	
8-34-501.2	Records of emission control system downtime	N	
8-34-501.4	Testing records	N	7/1/2002
8-34-501.6	Operating Records - Leaks	N	
8-34-501.10	Continuous gas flow records	N	7/1/2002
8-34-501.11	Key Emission Control System Operating Parameter Records	N	7/1/2002
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	N	
8-34-508	Gas Flow Meter	N	
8-34-509	Key Emission Control System Operating Parameter	N	7/1/2002
8-34-601	Determination of Emissions	N	
8-34-602	Inspection Procedures	N	

IV. Source-specific Applicable Requirements

Table IV - L
Source-specific Applicable Requirements
S-188 – COGENERATION TURBINE, 3500 kW
NATURAL GAS AND LANDFILL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective or Expiration Date
SIP Regulation 8 Rule 34	Organic Compounds - Solid Waste Disposal Sites (6/15/94)	Y	
8-34-301	Landfill Gas Collection/Emission Control System Requirements	Y	
8-34-301.1	Landfill Gas Collection System – Leak Requirements	Y	
8-34-501	Operating Records	Y	
8-34-503	Landfill Gas Collection/Emission Control Leak Testing – Frequency	Y	
8-34-601	Determination of Emissions	Y	
8-34-602	Inspection Procedures	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 Limitation	Y	
BAAQMD Regulation 9 Rule 2	Inorganic Gaseous Pollutants - Hydrogen Sulfide (10/6/99)	N	
9-2-301	Limitation on Hydrogen Sulfide	N	
9-2-501	Area Monitoring Requirements	N	
BAAQMD Regulation 9, Rule 9	Inorganic Gaseous Pollutants - Nitrogen Oxides from Stationary Gas Turbines (9/21/94)		
9-9-113	Exemption - Inspection/Maintenance	Y	
9-9-114	Exemption - Startup/Shutdown	Y	
9-9-301	Emission Limits - General	Y	
9-9-301.1	Emission Limits - Turbines below 10.0 MW	Y	
NSPS Part 60	Standards of Performance for New Stationary Sources (12/23/71)	Y	
Subpart A 60.7	Notification and record keeping	Y	
60.8(a)	Performance Tests	Y	
60.9	Availability of Information	Y	

IV. Source-specific Applicable Requirements

Table IV - L
Source-specific Applicable Requirements
S-188 – COGENERATION TURBINE, 3500 kW
NATURAL GAS AND LANDFILL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective or Expiration Date
60.11(a)	Compliance with standards and maintenance requirements	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
NSPS Subpart GG	Standards of Performance for Stationary Gas Turbines (1/27/82)		
60.332 (a)(1)	Performance Standard, NOx	Y	
60.333	Performance Standards, SO2	Y	
60.333 (b)	Fuel Sulfur Limit	Y	
60.334(a)	Water-to-fuel monitoring (if water injection used for NOx control)	Y	
60.334	Monitoring Requirements	Y	
60.334 (b)	Fuel Sulfur and Nitrogen Content	Y	
60.334 (c)	Excess Emissions	Y	
60.335	Test Methods and Procedures	Y	
BAAQMD Cond 13271			
part 1a	Fuel Type (Cumulative Increase)	Y	
part 1b	Throughput Limitations (Cumulative Increase)	Y	
part 1c	Requirement for PUC quality natural gas	Y	
part 2	NOx emission limitations- Stack Gas Concentration (Reg 9-9-301.1)	Y	
part 3	NOx Emission limitations - Daily Total (Cumulative Increase)	Y	
part 4	NOx Emission Limitations - Annual Total (Cumulative Increase)	Y	
part 5	CO Emission Limitations - Daily Total (Cumulative Increase)	Y	
part 6	CO Emission Limitations - Annual Total (Cumulative Increase)	Y	
part 7	SO2 Emission Limitations (40 CFR 60 Subpart GG)	Y	
part 8	Initial Compliance Source Test (Cumulative Increase)	Y	
part 9	Sampling Ports Required (Cumulative Increase)	Y	
part 10	Continuous emission monitoring (Cumulative Increase)	Y	
part 11	Records - daily usage of natural gas (Cumulative Increase)	Y	
part 12	Records - daily usage of landfill Gas (Cumulative Increase)	Y	

IV. Source-specific Applicable Requirements

Table IV - L
Source-specific Applicable Requirements
S-188 – COGENERATION TURBINE, 3500 kW
NATURAL GAS AND LANDFILL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective or Expiration Date
part 13	Landfill Gas – Organic Compound Abatement Efficiency (Cumulative Increase)	Y	
part 14	NOx limit (40 CFR 60.332)	Y	
part 15	Monitoring for NSPS NOx limit, fuel input limit (40 CFR 60.334(c)(1), Cumulative Increase)	Y	
part 16	SO2 limit and monitoring (Reg 9-1-302)	Y	
part 17	POC abatement requirement (Reg 8-34-301.4)	N	7/1/2002

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

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.

VI. PERMIT CONDITIONS

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

Condition 193

For S-100, Wastewater Treatment Plant

- *1. If off-property odors are detected and identified to originate from this facility, the specific sources shall be covered and vented to an odor scrubbing system. (Basis: BAAQMD Regulation 1-301)

Condition 1716

For S-24, Centrifuges and Cake Hoppers

- *1. H₂S concentration at the stack outlet of A-14 or A-15 shall not exceed 1.50 ppm, by volume. (Basis: BAAQMD Regulation 1-301)
- *2. If the District receives ten or more confirmed odor complaints within a 90 day period, Central Contra Costa Sanitary District shall install an area monitoring system for H₂S as described in Regulation 1-510 and comply with Regulation 9 Rule 2 Sections 9-2-301 and 9-2-501. This area monitoring system shall be installed and operating within 6 months from the date the tenth odor complaint is confirmed. (Basis: BAAQMD Regulation 1-301)
- *3. S-24 shall not be operated unless abated by A-14 or A-15 packed tower. (Basis: BAAQMD Regulation 1-301)

VI. Permit Conditions

Condition 7046

For S-120, Primary Treatment

- *1. The pre-aeration tank area and adjacent wastewater distribution channels at S-120 shall be enclosed and gaseous emissions from these portions of S-120 shall be abated by A-120 at all times that malodorous compounds are present at S-120. (Basis: BAAQMD Regulation 1-301)

Condition 7055

For S-182, Ash Conveying System

1. All particulate emissions at S-182 shall be abated by either Baghouse A-186, Baghouse A-196, or Cyclone A-191/Baghouse A-192. (Basis: Cumulative Increase)
2. A-186 Baghouse Filters, A-196 Baghouse Filters, and A-191 Cyclone/A-192 Baghouse System shall all be properly maintained and kept in good working order.
(Basis: Cumulative Increase)
3. A-186 Baghouse Filters, A-196 Baghouse Filters, and A-191 Cyclone/A-192 Baghouse System shall all be operated according to and within manufacturer's operating specifications.
(Basis: Cumulative Increase)
4. A-186 Baghouse Filters, A-196 Baghouse Filters, and A-191 Cyclone/A-192 Baghouse System, shall be checked for visible emissions on a quarterly basis when in use. The visible emissions check shall take place while the equipment is operating and during daylight hours. If any visible emissions are detected, the operator shall take corrective action, and check for visible emissions during the next loading event. If no visible emissions are detected, the operator shall continue to check for visible emissions every quarter. [Basis: Regulation 2-6-501]
5. The operator shall keep records of all visible emissions checks, the person performing the check, and all maintenance performed on A-186 Baghouse Filters, A-196 Baghouse Filters, and A-191 Cyclone/A-192 Baghouse System. The records shall be retained for five (5) years and shall be made available to District personnel upon request. [Basis: Regulation 2-6-501]

VI. Permit Conditions

VI. Permit Conditions

Condition 7124

For S-110, Preliminary Treatment

- *1. Odorous emissions from S-110 shall be abated by A-23 and A-24 at all times that malodorous compounds are present at S-110. (Basis: BAAQMD Regulation 1-301)
- *2. S-110 shall not emit odorous emissions in such quantities that cause a public nuisance per Regulation 1-301. (Basis: BAAQMD Regulation 1-301)

Condition 7523

For S-25, Non Retail Gasoline Dispensing Facility

- *1. Pursuant to BAAQMD Toxic Section Policy, this facility's annual gasoline throughput shall not exceed 400,000 gallons in any consecutive 12 month period. (Basis: BAAQMD Toxic Section Policy/Toxic Risk)
- *2. In order to demonstrate compliance with the above condition, Central Contra Costa Sanitary District shall maintain the following records and provide all of the data necessary to evaluate compliance with the above condition, including the following information:

Monthly gasoline throughput (gallons/month)

All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations. (Basis: Toxic Section Policy/Toxic Risk)

VI. Permit Conditions

Condition 13082

For S-180, Sludge Handling - Dissolved Air Flotation (DAF) thickeners

- *1. Each of the three dissolved air floatation (DAF) units at S-180 shall be equipped and operated with a District approved cover and ducting in place to route emissions from the DAF units to A-187 for abatement. (Basis: BAAQMD Regulation 1-301)
- *2. Malodorous gaseous emissions from each of the three dissolved air floatation units (DAF) units at S-180 shall be routed to and abated at all times that these portions of S-180 are sources of malodorous emissions. (Basis: BAAQMD Regulation 1-301)

Condition 13271

For S-188, Natural Gas and Landfill Gas Fired Turbine Generator with HRSG; Solar Model Centaur T-4700, 3500 KW; Maximum Firing Capacity - 46 MMBtu/hr (LHV) and 49.5 MMBtu/hr (HHV).

- 1a) S-188 shall be fired only on natural gas and/or landfill gas. (Basis: Cumulative Increase)
- 1b) The S-188 firing rate shall not exceed 1188 mmbtu/day (HHV) on any fuel. (Basis: Cumulative Increase)
- 1c) All natural gas burned at S-188 shall be PUC quality gas. (basis: 2-1-403)
- 2) NO_x emissions from S-188 shall not exceed 42 ppmv, dry, at 15 percent oxygen based on a three clock hour average. (Basis: Reg 9-9-301.1))
- 3) NO_x emissions from S-188 shall not exceed 118 pounds in any rolling consecutive 24 hour period. (Basis: Cumulative Increase)
- 4) NO_x emissions from S-188 shall not exceed 19.824 tons in any rolling 365 consecutive day period. (Basis: Cumulative Increase)
- 5) CO emissions from S-188 shall not exceed 157 pounds each rolling consecutive 24 hour period. (Basis: Cumulative Increase)
- 6) CO emissions from S-188 shall not exceed 26.376 tons in any rolling 365 consecutive day period. (Basis: Cumulative Increase)

VI. Permit Conditions

Condition 13271

For S-188, Natural Gas and Landfill Gas Fired Turbine Generator with HRSG; Solar Model Centaur T-4700, 3500 KW; Maximum Firing Capacity - 46 MMBtu/hr (LHV) and 49.5 MMBtu/hr (HHV).

- 7) Exhaust gas emissions shall not exceed 150 ppm SO₂, dry, at 15% O₂. CCCSD shall use the sulfur content of the gaseous fuels in conjunction with a material balance to calculate the exhaust gas sulfur dioxide concentration. CCCSD shall monitor and record the sulfur dioxide concentration at least 1 time every calendar quarter. (Basis: 40 CFR Part 60 Subpart GG)
- 8) To demonstrate compliance with conditions 5 and 6 above, CCCSD shall perform an initial compliance source test within 180 days of permit approval and thereafter at a frequency of at least 1 time every 60 months after the initial source test. Source test results shall be kept onsite and made available to the BAAQMD staff upon request. (Basis: Cumulative Increase)
- 9) The stack at S-188 shall be equipped with BAAQMD approved source testing ports to allow for the suitable sampling and testing of process flue gas emissions from S-188. (Basis: Cumulative Increase)
- 10) The permittee shall operate a BAAQMD approved emission monitoring and recording system for S-188 to continuously assure compliance with conditions 2, 3, and 4, above. Recording made to comply with this condition shall be retained for at least five years from date of last entry. This log shall be kept on-site and made available to the BAAQMD staff upon request. (Basis: Cumulative Increase, BAAQMD Regulation 2-6-501)
- 11) The daily usage of natural gas at S-188, as measured at a BAAQMD approved fuel meter dedicated solely to this sources, shall be recorded daily in cubic feet (or thousands of cubic feet) in a BAAQMD approved log. This log shall be retained for at least five years from date of last entry. This log shall be kept on-site and made available to the BAAQMD staff upon request. (Basis: Cumulative Increase, BAAQMD Regulation 2-6-501)
- 12) The daily usage of landfill gas at S-188, as measured at a BAAQMD approved fuel meter dedicated solely to this sources, shall be recorded daily in cubic feet (or thousands of cubic feet) in a BAAQMD approved log. Additionally, the daily average Btu content of the landfill gas, in Btu units, shall be recorded in this BAAQMD approved log. This log shall be retained for at least five years from date of last entry. This log shall be kept on-site

VI. Permit Conditions

Condition 13271

For S-188, Natural Gas and Landfill Gas Fired Turbine Generator with HRSG; Solar Model Centaur T-4700, 3500 KW; Maximum Firing Capacity - 46 MMBtu/hr (LHV) and 49.5 MMBtu/hr (HHV).

and made available to the BAAQMD staff upon request. (Basis: Cumulative Increase, BAAQMD Regulation 2-6-501)

- 13) While burning landfill gas, organic compound emissions and methane emissions shall be abated by at least 90% by weight across S-188 Cogeneration turbine. To demonstrate compliance with this requirement CCCSD shall perform a pre-approved source test within 60 days of the introduction of landfill gas to S-188 in accordance with the District Manual of Procedures. (Basis: BAAQMD Regulation 8-34-114)

For the purposes of establishing an operating parameter to ensure ongoing compliance with the above abatement efficiency standard, CCCSD shall continuously monitor and record combustion temperature during the source test. Upon source test completion and successful demonstration of compliance with the abatement efficiency standard, District staff shall revise this permit condition as an administrative permit amendment to incorporate the specific minimum temperature setpoint.

- 14) NO_x emission from S-188 shall not exceed 154 ppmv, dry, at 15% oxygen based on a clock-hour average. (Basis: 40 CFR 60.332)
- 15) In order to show compliance with parts 1b and 14, the permittee shall operate a USEPA approved fuel flow monitor and water injection flow monitor and calculate the water-to-fuel ratio on a clock-hour basis and the heat input on a daily basis. (Basis 40 CFR 60.334(c)(1))
- 16) Exhaust gas emissions shall not exceed 300 SO₂ ppmv, dry. CCCSD shall use the sulfur content of the fuels in conjunction with a material balance to calculate the exhaust gas sulfur dioxide concentrations. CCCSD shall monitor the sulfur content of the landfill gas, calculate the exhaust gas SO₂ concentration by material balance, and record the results at a frequency of at least one time every calendar week when burning landfill gas. If CCCSD can demonstrate 3 months of calculated exhaust gas SO₂ concentrations less than 150 ppmv dry at 15% oxygen, the monitoring frequency for landfill gas sulfur analysis can be reduced to at least one time every calendar month. (Basis: BAAQMD 9-1-302)

VI. Permit Conditions

Condition 13271

For S-188, Natural Gas and Landfill Gas Fired Turbine Generator with HRSG; Solar Model Centaur T-4700, 3500 KW; Maximum Firing Capacity - 46 MMBtu/hr (LHV) and 49.5 MMBtu/hr (HHV).

- *17) After July 1, 2002, Total Organic Compound emissions shall be abated by at least 98% by weight across S-188 or concentration will be less than 120 ppmv, dry Non-Methane Hydrocarbon (NMHC) as methane corrected to 3% oxygen when firing landfill gas. To demonstrate compliance with this requirement, CCCSD shall perform a pre-approved source test within 60 days of July 1, 2002. During the source test, CCCSD shall continuously monitor and record combustion temperature. Upon Source Test completion and successful demonstration of compliance with abatement efficiency standard, District staff shall revise the permit condition as an administrative permit amendment to incorporate the specific minimum temperature setpoint. (Basis: BAAQMD Regulation 8-34-301.4).

Condition # 16562

For S-7, Auxiliary Steam Boiler 1, and S-8, Auxiliary Steam Boiler 2; Both Boiler Specifications as follows: Cleaver Brooks, CB, 700 HP, ME74139, Maximum Firing Capacity: 22 MM Btu/hr with High Turn Down Multi-fuel Burners and Cleaver Brooks induced Flue Gas Recirculation System

- 1) S-7 Boiler and S-8 Boiler shall be fired at a rate not to exceed 22 MM Btu/hr per boiler. (Basis: Cumulative Increase)
- 2) Exhaust gas emissions shall not exceed 300 ppm, dry SO₂. CCCSD shall use the sulfur content of the fuels in conjunction with a material balance to calculate the exhaust gas sulfur dioxide concentration. (Basis: BAAQMD 9-1-302).

CCCSD shall monitor and record the sulfur content of the landfill gas at a frequency of at least one time every calendar week when burning landfill gas. If CCCSD can demonstrate 3 months of weekly landfill gas sulfur compositions less than 150 ppm, the monitoring frequency can be reduced to at least one time every calendar month when burning landfill gas.

VI. Permit Conditions

Condition # 16562

For S-7, Auxiliary Steam Boiler 1, and S-8, Auxiliary Steam Boiler 2; Both Boiler Specifications as follows: Cleaver Brooks, CB, 700 HP, ME74139, Maximum Firing Capacity: 22 MM Btu/hr with High Turn Down Multi-fuel Burners and Cleaver Brooks induced Flue Gas Recirculation System

CCCSD shall calculate and record the resulting sulfur dioxide concentration at least 1 time every calendar quarter.

- 3) Emissions of nitrogen oxides (NO_x) shall not exceed 30 ppmv (@ 3 percent O₂, dry) when firing gaseous fuels. (Basis: BAAQMD Regulation 9-7-301.1)
- 4) Emissions of nitrogen oxides (NO_x) shall not exceed 40 ppmv (@ 3 percent O₂, dry) when firing distillate oil. (Basis: BAAQMD Regulation 9-7-302.1)
- 5) Emissions of carbon monoxide (CO) shall not exceed 400 ppmv @ 3 percent O₂, dry. (Basis: BAAQMD Regulation 9-7-301.2, 9-7-302.2)
- 6) The distillate oil sulfur content shall not exceed 0.5 percent by weight. (Basis: Cumulative Increase)
- 7) To demonstrate compliance with conditions 3, 4, and 5 above, CCCSD shall perform an initial compliance source test within 180 days of permit approval and thereafter at a frequency of at least 1 time every 60 months after the initial source test. Compliance source tests shall be conducted in accordance with District Manual of Procedures. Source test results shall be kept onsite and made available to the BAAQMD staff upon request. (Basis: Cumulative Increase)
- 8) While burning landfill gas, organic compound emissions and methane emissions shall be abated by at least 90% by weight across S-7 and S-8 auxiliary boiler. To demonstrate compliance with this requirement CCCSD shall perform a pre-approved source test in accordance with the District Manual of Procedures. This part expires July 1, 2002. (Basis: BAAQMD Regulation 8-34-114)

For the purposes of establishing an operating parameter to ensure ongoing compliance with the above abatement efficiency standard, CCCSD shall continuously monitor and record combustion temperature during the source

VI. Permit Conditions

Condition # 16562

For S-7, Auxiliary Steam Boiler 1, and S-8, Auxiliary Steam Boiler 2; Both Boiler Specifications as follows: Cleaver Brooks, CB, 700 HP, ME74139, Maximum Firing Capacity: 22 MM Btu/hr with High Turn Down Multi-fuel Burners and Cleaver Brooks induced Flue Gas Recirculation System

test. Upon source test completion and successful demonstration of compliance with the abatement efficiency standard, District staff shall revise this permit condition as an administrative permit amendment to incorporate the specific minimum temperature setpoint.

- 9) To determine compliance with the above conditions, the Permit Holder shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including the following information:
 - a) Monthly records of the quantity of gaseous fuel (therms) and distillate oil (gal) burned at this source.
 - b) Monthly records of the distillate oil sulfur content certification.
 - c) Monthly records shall be totaled for each consecutive 12-month period.
 - d) All records shall be retained onsite for five years from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations. (Basis: Cumulative Increase, BAAQMD 9-1-304)
- *10) After July 1, 2002, Total Organic Compound emissions shall be abated by at least 98% by weight across S-7 and S-8 or concentration will be less than 120 ppmv, dry Non-Methane Hydrocarbon (NMHC) as methane corrected to 3% oxygen when firing landfill gas. To demonstrate compliance with this requirement, CCCSD shall perform a pre-approved source test within 60 days of July 1, 2002. During the source test, CCCSD shall continuously monitor and record combustion temperature. Upon Source Test completion and successful demonstration of compliance with abatement efficiency standard, District staff shall revise the permit condition as an administrative permit amendment to incorporate the specific minimum temperature setpoint. (Basis: BAAQMD Regulation 8-34-301.4)

VI. Permit Conditions

Condition # 16563 (Replaces Condition 105)

For S-9, Furnace 1, and S-10, Furnace 2, Sewage Sludge Incinerator, BSP
Multiple Rotary Hearth, 27 MM Btu/hr Max Heat Input

- 1) Solid fuel shall be solids derived from CCCSD sewage operations only. (Basis: Cumulative Increase)
- 2) S-9 and S-10 combined solid fuel throughput shall not exceed 110 ton/day and 20,000 ton in any consecutive 12 month period (Basis: Cumulative Increase)
- 3) Particulate emissions shall not exceed 0.65 gram per kilogram of dry sludge input (1.3 lb/ton dry sludge input) (Basis: 40 CFR 60.152(a)(1), NSPS).
- 4) Particulate emissions shall not exceed 343 mg/dscm (0.15 grain per dscf) of exhaust gas volume. The actual measured concentration of particulate matter in the exhaust gas shall be corrected to the concentration which the same quantity of particulate matter would constitute in the exhaust gas minus water vapor corrected to standard conditions, containing 12% CO₂ by volume, and as if no auxiliary fuel had been used (Basis: BAAQMD 6-310).
- 5) Visible emissions shall not exceed 20 percent opacity as detected by an opacity sensing device for a period or periods aggregating more than three minutes in any hour). To comply with this condition Central Contra Costa Sanitary District (CCCSD) shall install and maintain a District-approved opacity sensing continuous emission monitor (CEM). (Basis: BAAQMD 6-401, 40 CFR 60.152(a)(2))
- 6) Total combined beryllium emissions from S-9 and S-10 are not to exceed 10 grams in any 24 hr period. Unless a waiver is obtained by the APCO (according to 40 CFR 60.13) CCCSD is to demonstrate compliance according to EPA Method 104 of Appendix B of 40 CFR 61.33. (Basis: BAAQMD 11-3-301)
- 7) Total combined mercury emissions from S-9 and S-10 are not to exceed 3200 gram per 24 hour period.. Compliance with this section may be demonstrated by performing an EPA Method 105 (Mercury in Wastewater Treatment Plant Sewage Sludge) test or an equivalent test as pre-approved by the APCO. (Basis: BAAQMD 11-5-302, 40 CFR 61.52)

VI. Permit Conditions

Condition # 16563 (Replaces Condition 105)

For S-9, Furnace 1 and S-10 Furnace 2, Sewage Sludge Incinerator, BSP Multiple Rotary Hearth, 27 MM Btu/hr Max Heat Input

- 8) If mercury emissions exceed 1600 gram per 24 hour period, CCCSD shall monitor their emissions at a frequency of at least every 12 months. (Basis: 40 CFR 61.55(a))
- 9) Lead emissions are not to exceed 15 lb/day per incinerator (Basis: BAAQMD 11-1).
- 10) To demonstrate initial compliance with condition 3 through 9 and with Regulation 6-311 above, source tests shall be conducted within 180 days of permit approval. Source test protocols shall be prepared and pre-approved by the APCO prior to performing any source tests. Note: Source tests performed prior to issuance of the Title V permit may be used to demonstrate initial compliance as long as appropriate sampling and analysis methods were used and approved by the APCO. Source tests to demonstrate compliance with 40 CFR part 503 may also be used to demonstrate compliance as long as appropriate sampling and analysis methods were used and approved by the APCO. (Basis: 2-6-501)
 - a) Sewage Sludge sampling: Sewage sludge sampling shall be performed as noted in condition 12(f) below. CCCSD shall use Method 209F to determine dry sludge content, Method 104 for beryllium, Method 12 for lead, and Method 105 for mercury. (Basis: 40 CFR 60.154) Sewage sludge testing for metals content shall be performed at a frequency of at least once every 60 months. Results shall be submitted to the District within 60 days of analytical completion.
 - b) Exhaust particulate testing: Three composite exhaust samples shall be collected according to EPA Method 5 and analyzed for particulate mass. (Basis: 40 CFR 60.154 (d)(3)) Particulate mass shall be performed at a frequency of at least every 60 months. Results shall be submitted to the District within 60 days of analytical completion.
 - c) Exhaust metals testing: Three composite exhaust samples shall be collected according to EPA Method 5. Two of the samples shall be analyzed by neutron activation for arsenic, cadmium, chromium, copper, nickel, selenium and zinc; and one sample shall be analyzed according to Method 104 (or Method 103) and Method 12, respectively, for beryllium

VI. Permit Conditions

Condition # 16563 (Replaces Condition 105)

For S-9, Furnace 1 and S-10 Furnace 2, Sewage Sludge Incinerator, BSP Multiple Rotary Hearth, 27 MM Btu/hr Max Heat Input

and lead. (Basis: 40 CFR 60.154(d)(3)(i). Exhaust metals testing shall be performed at a frequency of at least once every 60 months. Results shall be submitted to the District within 60 days of analytical completion.

- 11) Ongoing Emissions – Sulfur Dioxide: Exhaust gas emissions shall not exceed 300 ppm, dry SO₂. (Basis: BAAQMD 9-1-304)

To demonstrate compliance with this requirement CCCSD shall perform a District-approved source test at a frequency of at least one time every calendar year. Source tests shall be conducted using BAAQMD Method ST-19A (or an approved equivalent method) according to a pre-approved source test protocol. Results shall be submitted to the District within 60 days of analytical completion. (Basis: BAAQMD 9-1-304)

- 12a) Organic compound emissions and methane emissions from landfill gas combustion shall be abated by at least 90% by weight across S-9 and S-10 sewage sludge incinerators. To demonstrate compliance with this standard a minimum temperature surrogate in the incinerator afterburner (Hearth Zero) shall be established according to the results from the S-7 and /or S-8 auxiliary boiler source testing. This operating condition shall be revised accordingly by District Staff as an administrative permit amendment at the conclusion of the source testing at S-9 and S-10. This part expires July 1, 2002. (Basis: BAAQMD Regulation 8-34-114)

- *12b) After July 1, 2002, Total Organic Compound emissions shall be abated by at least 98% by weight across S-9 and S-10 or concentration will be less than 120 ppmv, dry Non-Methane Hydrocarbon (NMHC) as methane corrected to 3% oxygen when firing landfill gas. To demonstrate compliance with this requirement, CCCSD shall perform a pre-approved source test within 60 days of July 1, 2002. During the source test, CCCSD shall continuously monitor and record combustion temperature. Upon Source Test completion and successful demonstration of compliance with abatement efficiency standard, District staff shall revise the permit condition as an administrative permit amendment to incorporate the specific minimum temperature setpoint (Basis: BAAQMD Regulation 8-34-301.4)

VI. Permit Conditions

Condition # 16563 (Replaces Condition 105)

For S-9, Furnace 1 and S-10 Furnace 2, Sewage Sludge Incinerator, BSP Multiple Rotary Hearth, 27 MM Btu/hr Max Heat Input

- 13) Ongoing Monitoring: To demonstrate compliance with the above conditions and as required by the New Source Performance Standard (NSPS) for sewage treatment plants CCCSD shall:
- a) Install, calibrate, maintain and operate a flow measuring device, which can be used to determine either the mass or volume of sludge charged to the incinerator. The sludge flow measurement device shall be certified by the manufacturer to have an accuracy of + 5% over its operating range. The flow measurement device shall be operated continuously and data recorded during all periods of operation of the incinerator. (Basis: 40 CFR 60.153(a)(1))
 - b) Install, calibrate, maintain and operate a monitoring device that continuously measures and records the pressure drop of the gas flow through the wet scrubber. Where a combination of wet scrubbers is used in series, the pressure drop of the gas flow through the combined system shall be continuously monitored. The device used to monitor scrubber pressure drop shall be certified by the manufacturer to be accurate within + 1 in water gauge and shall be calibrated on an annual basis in accordance with manufacturer's instructions. (Basis: 40 CFR 60.153(b)(1))
 - c) Install, calibrate, maintain and operate a monitoring device that continuously measures and records the oxygen content of the incinerator exhaust gases. The oxygen monitor shall be located upstream of any rabble shaft cooling air inlet in the incinerator exhaust gas stream, fan, ambient air recirculation damper, or any other source of dilution air. The oxygen monitoring device shall be certified by the manufacturer to have a relative accuracy of + 5 percent over its operating range and shall be calibrated according to method(s) prescribed by the manufacturer at least once each 24-hour operating period. (Basis: 40 CFR 60.153(b)(2))
 - d) Install, calibrate, maintain and operate temperature measuring devices at every hearth in multiple hearth furnaces. A minimum of one thermocouple shall be installed in each hearth in the cooling and drying zones, and a minimum of two thermocouples shall be installed in each hearth in the combustion zone. Each temperature measuring device shall

VI. Permit Conditions

Condition # 16563 (Replaces Condition 105)

For S-9, Furnace 1 and S-10 Furnace 2, Sewage Sludge Incinerator, BSP Multiple Rotary Hearth, 27 MM Btu/hr Max Heat Input

be certified by the manufacturer to have an accuracy of + 5 percent over its operating range. The temperature monitoring devices shall be operated continuously and data recorded during all periods of operation of the incinerator. (Basis: 40 CFR 60.153(b)(3))

- e) Install, calibrate, maintain and operate a device for measuring the fuel flow to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of + 5 percent over its operating range. The fuel flow device(s) shall be operated continuous and data recorded during all periods of operation of the incinerator. (Basis: 40 CFR 60.153(b)(4))
 - f) Collect and analyze a grab sample of the sludge fed to the incinerator once per day. The dry sludge content and the volatile solids content shall be determined in accordance with the method specified in 40 CFR 60.154 c (2). (Basis: 40 CFR 60.153(b)(5))
 - g) In order to demonstrate compliance with Condition 2, above, CCCSD shall maintain daily records of total solid fuel throughput (ton/day) to S-9 and S-10 sewage sludge incinerators. (Basis: Cumulative Increase)
 - h) All records shall be retained onsite for a period of at least 5 years and made available to the APCO upon request. (Basis: Cumulative Increase)
- 14) Reporting: As required by the New Source Performance Standard (NSPS) and NESHAPs for Beryllium and Mercury, CCCSD shall submit to the Administrator and the District semi-annually a report in writing which contains the following (Basis: 40 CFR 60.155):
- a) A record of average scrubber pressure drop measurements for each period of 15 minutes duration or more during which the pressure drop of the scrubber was less than 7.8 inches water gauge. (Basis: 40 CFR 60.155(a)(1)).

VI. Permit Conditions

Condition # 16563 (Replaces Condition 105)

For S-9, Furnace 1 and S-10 Furnace 2, Sewage Sludge Incinerator, BSP Multiple Rotary Hearth, 27 MM Btu/hr Max Heat Input

- b) A record of average oxygen content in the incinerator exhaust gas (prior to dilution) for each period of 1-hour duration or more that the oxygen content exceeds 10 percent. (Basis: 40 CFR 60.155(a)(2)).
- c) Any recent reports as appropriate or as requested by the APCO. (Basis: 40 CFR 60.155(a)(3), (4), (5), (6))

Condition #16692

For S-11, S-13, S-15, S-22, Lime Storage Silos with Pneumatic Loading System

1. Particulate matter emissions during lime storage silo S-11, S-13, S-15, or S-22 operation shall be controlled by A-7, Lime Storage Bin Vent Filter FR55315. [Basis: Regulation 2-1-403]
2. A-7 Lime Storage Bin Vent Filter FR55315, shall be checked for visible emissions on a quarterly basis when in use. The visible emissions check shall take place while the equipment is operating and during daylight hours. If any visible emissions are detected, the operator shall take corrective action, and check for visible emissions during the next loading event. If no visible emissions are detected, the operator shall continue to check for visible emissions every quarter. [Basis: Regulation 2-6-501]
3. The operator shall keep records of all visible emissions checks, the person performing the check, and all maintenance performed on A-7 Lime Storage Bin Vent Filter FR55315. The records shall be retained for five (5) years and shall be made available to District personnel upon request. [Basis: Regulation 2-6-501]

VI. Permit Conditions

Condition #16693

For S-14 Lime Transfer System

1. Particulate matter emissions during lime transfer operations shall be controlled by A-8, Lime Dust Collector A-8 FR21211. [Basis: Regulation 2-1-403]
2. A-8 Lime Dust Collector Filter FR21211, shall be checked for visible emissions on a quarterly basis when in use. The visible emissions check shall take place while the equipment is operating and during daylight hours. If any visible emissions are detected, the operator shall take corrective action, and check for visible emissions during the next loading event. If no visible emissions are detected, the operator shall continue to check for visible emissions every quarter. [Basis: Regulation 2-6-501]
3. The operator shall keep records of all visible emissions checks, the person performing the check, and all maintenance performed on A-8 Lime Dust Collector FR21211. The records shall be retained for five (5) years and shall be made available to District personnel upon request. [Basis: Regulation 2-6-501]

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

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

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-7 Auxiliary Boiler, Multi-Fuel
S-8 Auxiliary Boiler, Multi-Fuel

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-7-301.1 (Gaseous Fuels)	Y		30 ppmv @ 3% O ₂ , dry	BAAQMD Condition #16562, part 7	P/once every 60 months	source test
	BAAQMD 9-7-302.1 (Non-Gaseous Fuels)	Y		40 ppmv @3% O ₂ , dry	BAAQMD Condition #16562, part 7	P/once every 60 months	source test
	BAAQMD 9-7-305.1	Y		150 ppmv @ 3% O ₂ , dry	BAAQMD 9-7-503.2	P/E	Records
	BAAQMD 9-7-306.1	Y		150 ppmv @ 3% O ₂ , dry	BAAQMD 9-7-503.2	P/E	Records
CO	BAAQMD 9-7-301.2 (Gaseous Fuels)	Y		400 ppmv @ 3% O ₂ , dry	BAAQMD Condition #16562, part 7	P/once every 60 months	source test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-7 Auxiliary Boiler, Multi-Fuel
S-8 Auxiliary Boiler, Multi-Fuel

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD 9-7-302.2 (Non-Gaseous Fuels)	Y		400 ppmv @ 3% O ₂ , dry		N	
	BAAQMD 9-7-305.2	Y		400 ppmv @ 3% O ₂ , dry	BAAQMD 9-7-503.2	P/E	Records
	BAAQMD 9-7-306.2	Y		400 ppmv @ 3% O ₂ , d	BAAQMD 9-7-503.3	P/E	Records
SO _x	BAAQMD 9-1-301	N		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N	
	BAAQMD 9-1-302	Y		300 ppm (dry)	BAAQMD Condition #16562, part 2	P/W or M for landfill gas only (Monthly if 3 months data < 150 ppm)	Fuel Sulfur Analysis
	BAAQMD 9-1-304	Y		Sulfur content of fuel (<0.5% by wt)	BAAQMD Condition #16562, part 9b	P/M	Fuel Sulfur Analysis
	BAAQMD Condition #16562, part 2	Y		300 ppm (dry)	BAAQMD Condition #16562, part 2	P/W (Monthly if 3 months data < 150 ppm)	Fuel Sulfur Analysis
	BAAQMD Condition #16562, part 6	Y		Sulfur content of fuel (<0.5% by wt)	BAAQMD Condition #16562, part 9b	P/M	Fuel Sulfur Analysis
TSP	BAAQMD 6-301	Y		Ringelmann No. 1		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-7 Auxiliary Boiler, Multi-Fuel
S-8 Auxiliary Boiler, Multi-Fuel

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD 6-310	Y		0.15 grains/dscf @ 6% O ₂		N	
Organics & CH ₄	BAAQMD, Cond #16562, part 10	N	7/1/2002	Emission Reduction: 98% by weight or concentration less than 120 ppmv NMOC, as methane @ 3% O ₂	BAAQMD, Cond #16562, part 10	C	temperature monitor and recorder
	BAAQMD 8-34-114	N	Expires 7/1/2002	Emission Reduction: 90% by weight	BAAQMD, Cond #16562, part 8	C	Hearth Zero Temp
	BAAQMD 8-34-301.2	N		Max Leakage: 1000 ppmv (as CH ₄)	BAAQMD 8-39-503	P/Q	Leak Testing
	BAAQMD 8-34-301.4	N	7/1/2002	Emission Reduction: 98% by weight or concentration less than 120 ppmv NMOC, as methane and at 3% O ₂	8-34-507	C	temperature monitor and recorder
	BAAQMD 8-34-301.4	N	7/1/2002	Emission Reduction: 98% by weight or concentration less than 120 ppmv NMOC, as methane and at 3% O ₂	8-34-508	C	gas flow meter
	BAAQMD 8-34-301.4	N	7/1/2002	Emission Reduction: 98% by weight or concentration less than 120 ppmv NMOC, as methane and at 3% O ₂	8-34-412	P/A	source test
Organics & CH ₄	SIP 8-34-114	Y		Emission Reduction: 90% by weight	Permit Cond 16562, part 8	C	Hearth Zero Temp
	SIP 8-34-301.1	Y		Max Leakage: 1000 ppmv (as CH ₄)	BAAQMD 8-39-503	P/Q	Leak Testing

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-7 Auxiliary Boiler, Multi-Fuel
S-8 Auxiliary Boiler, Multi-Fuel

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Heat input	BAAQMD Condition #16562, part 1	Y		Not to exceed 22 mmbtu/hr	BAAQMD Condition #16562, part 9a	P/M	Records

Table VII -B
Applicable Limits and Compliance Monitoring Requirements
S-9, Furnace 1, Sewage Sludge (Incinerator)
S-10, Furnace 2, Sewage Sludge (Incinerator)

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SOx	BAAQMD 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		N	
SOx	BAAQMD 9-1-304	Y		300 ppm (dry)	BAAQMD Condition #16563, part 11	P/A	source test
TSP	BAAQMD 6-301	Y		Ringelmann No. 1		N	
	BAAQMD 6-302	Y		20% opacity for no more than 3 min in any hour	BAAQMD 6-501	C	COM
	BAAQMD 6-310.1	Y		0.15 grains/dscf @ 12% CO ₂ and as if no auxiliary fuel is used	BAAQMD Condition #16563, part 10	P/once per permit term	Exhaust sample & analysis

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII -B
Applicable Limits and Compliance Monitoring Requirements
S-9, Furnace 1, Sewage Sludge (Incinerator)
S-10, Furnace 2, Sewage Sludge (Incinerator)

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	Regulation 6-311	Y		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr	BAAQMD Condition #16563, part 10	P/once per permit term	Exhaust sample & analysis
	BAAQMD Condition #16563, part 4	Y		343 mg particulate/dscm of exhaust gas volume	40 CFR 60.154 (d)(3)	P/once per permit term	Exhaust sample & analysis
TSP	40 CFR 60.152(a)(1), BAAQMD Condition #16563, part 3	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(a)(1)	C	Sludge flow meter
TSP	40 CFR 60.152(a)(1)	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(a)(3)	C	Sludge weighing
	40 CFR 60.152(a)(1)	Y		0.65 g particulate matter/kg dry sludge (pressure drop shall not drop below 7.8 inches of water gauge for > 15 min in any hour)	40 CFR 60.153(b)(1), BAAQMD Condition #16563, parts 13b and 14a	C	Pressure drop meter
TSP	40 CFR 60.152(a)(1)	Y		0.65 g particulate matter/kg dry sludge (oxygen content shall not exceed 10%)	40 CFR 60.153(b)(2), BAAQMD Condition #16563, parts 13c and 14b	C	O2 Meter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII -B
Applicable Limits and Compliance Monitoring Requirements
S-9, Furnace 1, Sewage Sludge (Incinerator)
S-10, Furnace 2, Sewage Sludge (Incinerator)

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	40 CFR 60.152(a)(1)	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(b)(3)	C	Temperature monitoring
	40 CFR 60.152(a)(1)	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(b)(4)	C	Fuel flow meter
TSP	40 CFR 60.152 (1)	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(b)(5)	P/D	Sludge sample and analysis
TSP	40 CFR 60.152(a)(2), BAAQM D Condition # 16563, Part 5	Y		20% Opacity or greater	40 CFR 60.154	C	COM
Organics & CH ₄	BAAQM D Condition #16563, Part 12a	Y	Expires 7/1/2002	Emission Reduction: 90% by weight	BAAQMD Condition 16563, Part 12a	C	Combustion Temperature
	BAAQM D Condition #16563, Part 12b	N	7/1/2002	Emission Reduction: 98% by weight or concentration less than 120 ppm _{dv} NMOC, as methane and at 3% O ₂	BAAQMD Condition #16563, Part 12b	C	temperature monitor and recorder
Organics & CH ₄	BAAQM D 8-34-114	N	Expires 7/1/2002	Emission Reduction: 90% by weight	BAAQMD Condition 16563, Part 12a	C	Combustion Temperature

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII -B
Applicable Limits and Compliance Monitoring Requirements
S-9, Furnace 1, Sewage Sludge (Incinerator)
S-10, Furnace 2, Sewage Sludge (Incinerator)

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQM D 8-34-301.2	Y		Max Leakage: 1000 ppmv (as CH ₄)	BAAQMD 8-34-503	P/Q	leak monitoring
	BAAQM D 8-34-301.4	N	7/1/2002	Emission Reduction: 98% by weight or concentration less than 120 ppmv NMOC, as methane and at 3% O ₂	8-34-507	C	temperature monitor and recorder
	BAAQM D 8-34-301.4	N	7/1/2002	Emission Reduction: 98% by weight or concentration less than 120 ppmv NMOC, as methane and at 3% O ₂	8-34-508	C	gas flow meter
Organics & CH ₄	BAAQM D 8-34-301.4	N	7/1/2002	Emission Reduction: 98% by weight or concentration less than 120 ppmv NMOC, as methane and at 3% O ₂	8-34-412	P/A	source test
	SIP 8-34-114	Y		Emission Reduction: 90% by weight	BAAQMD Condition 16563, Part 12a	C	Combustion Temperature
H ₂ S	BAAQM D 9-2-301	N		24 Hour Standard: GLC not to exceed 0.06 ppm ave over 3 min and 0.03 ppm ave over 60 min		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII -B
Applicable Limits and Compliance Monitoring Requirements
S-9, Furnace 1, Sewage Sludge (Incinerator)
S-10, Furnace 2, Sewage Sludge (Incinerator)

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Lead	BAAQM D 11-1-301, BAAQM D Condition #16563, Part 9	Y		15 lb/day	BAAQMD Condition #16563, Part 10	P/once per permit term	Sludge Analysis, Exhaust Source Test
Lead	BAAQM D 11-1-302	Y		Max GLC (w/o background): 1.0 microgram/cu m (24 hr ave)		N	
Be	BAAQM D 11-3-301, BAAQM D Condition # 16563, Part 6	N		10 g/ 24 hr	BAAQMD Condition #16563, Part 10	P/once per permit term	Sludge Analysis, Exhaust Source Test
	40 CFR Part 61.32	Y		10 g/ 24 hr	BAAQMD Condition #16563, Part 10	P/ once per permit term	Sludge Analysis, Exhaust Source Test
Hg	BAAQM D 11-5-302, Condition # 16563, Part 7	N		3200 g/24 hr	BAAQMD Condition #16563, Parts 7, 8, 10	P/once per permit term	Sludge Analysis, Exhaust Source Test
Hg	40 CFR Part 61.52 (b)	Y		3.2 kg/24 hr	40 CFR Part 61.53	P/once per permit term	Sludge Analysis, Exhaust Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII -B
Applicable Limits and Compliance Monitoring Requirements
S-9, Furnace 1, Sewage Sludge (Incinerator)
S-10, Furnace 2, Sewage Sludge (Incinerator)

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Solid Fuel Feed Rate	Permit Condition #16563, Part 2	Y		110 ton sludge (dry)/day	Permit Condition #16563, Part 13a	P/C	flow measuring device
	Permit Condition #16563, Part 2	Y		20,000 ton sludge (dry)/day	Permit Condition #16563, Part 13a	P/C	flow measuring device

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S-11 Lime Storage Silo w/Pneumatic Loading System
S-13 Lime Storage Silo w/Pneumatic Loading System
S-15 Lime Storage Silo w/Pneumatic Loading System
S-22 Lime Storage Silo w/Pneumatic Loading System

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQM D 6-301	Y		Ringelmann No. 1	BAAQMD cond# 16692, part 2	P/Q	visible emissions check
	BAAQM D 6-310	Y		0.15 grains/dscf	BAAQMD cond# 16692, part 2	P/Q	visible emissions check
	BAAQM D 6-311	Y		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr	BAAQMD cond# 16692, part 2	P/Q	visible emissions check

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - D
Applicable Limits and Compliance Monitoring Requirements
S-14 Lime Transfer System

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQM D 6-301	Y		Ringelmann No. 1	BAAQMD cond# 16693, part 2	P/Q	visible emissions check
	BAAQM D 6-310	Y		0.15 grains/dscf	BAAQMD cond# 16693, part 2	P/Q	visible emissions check
	BAAQM D 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD cond# 16693, part 2	P/Q	visible emissions check

Table VII - E
Applicable Limits and Compliance Monitoring Requirements
S-24 Centrifuges and Cake Hoppers

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQM D 6-301	Y		Ringelmann No. 1		N	
	BAAQM D 6-310	Y		0.15 grains/dscf		N	
	BAAQM D 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr		N	
H ₂ S	BAAQM D Condition 1716, Part 1	N		1.5 ppmv		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - F
Applicable Limits and Compliance Monitoring Requirements
S-25 Gasoline Dispensing Facility

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Gasoline Throughput	Condition 7523, Part 1	N		400,000 gallons	Condition 7523 Part 2	P/M	Records

Table VII - G
Applicable Limits and Compliance Monitoring Requirements
S-180 Sludge Handling Processes

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann No. 1		N	
	BAAQMD 6-310	Y		0.15 grains/dscf		N	
	BAAQMD 6-311	Y		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N	

Table VII - H
Applicable Limits and Compliance Monitoring Requirements
S-182 Ash Conveying System

VII. Applicable Limits and Compliance Monitoring Requirements

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQM D 6-301	Y		Ringelmann No. 1	BAAQMD cond# 7055, part 4	P/Q	visible emissions check
	BAAQM D 6-310	Y		0.15 grains/dscf	BAAQMD cond# 7055, part 4	P/Q	visible emissions check
	BAAQM D 6-311	Y		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr	BAAQMD cond# 7055, part 4	P/Q	visible emissions check

**Table VII - I
 Applicable Limits and Compliance Monitoring Requirements
 S-188 Natural Gas & Landfill Gas Fired Turbine Generator with HRSG**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-9-301.1	Y		42 ppmv, dry @ 15% O ₂ , 3-hr average	BAAQMD cond# 13271, part #10	C	CEM
	40 CFR Part 60.332	Y		154 ppm (dry basis) @ 15% O ₂ on a clock-hour basis	BAAQMD cond# 13271, part #15	C	water-to-fuel monitoring
	40 CFR Part 60.332	Y		154 ppm (dry basis) @ 15% O ₂ on a clock-hour basis	Nitrogen content monitoring per 40 CFR 60.334(a) subsumed by BAAQMD condition #13271, part 10. See Permit Shield.	N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - I
Applicable Limits and Compliance Monitoring Requirements
S-188 Natural Gas & Landfill Gas Fired Turbine Generator with HRSG

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD Condition 13271, part #2	Y		42 ppmv, dry @ 15% O ₂ , 3-hr average	BAAQMD 9-9-501, BAAQMD cond# 13271, part #10	C	CEM
	BAAQMD Condition 13271, part #3	Y		118 lb/day	BAAQMD cond# 13271, part #10	C	CEM
	BAAQMD Condition 13271, part #4	Y		19.824 ton/rolling 365 day period	BAAQMD cond# 13271, part #10	C	CEM
CO	BAAQMD Condition 13271, part #5	Y		157 lb/24 hour	BAAQMD cond# 13271, part #8	P/once every 60 months	source test
CO	BAAQMD Condition 13271, part #6	Y		26.376 tons/rolling 365 day period	BAAQMD cond# 13271, part #8	P/once every 60 months	source test
SO ₂	BAAQMD 9-1-301	Y		GLC 0.5 ppm (3 min ave) 0.25 ppm (60 min ave) 0.05 ppm (24 hr ave)		N	
	BAAQMD 9-1-302	N		Maximum exhaust stream conc - 300 ppm	BAAQMD Condition 13271, part #16	P/weekly for 3 months, then quarterly if < 150 ppm	fuel analysis
SO ₂	NSPS Subpart GG, 60.333 (b)	Y		0.8 % sulfur in fuel by weight (landfill gas)	NSPS Subpart GG, 60.334 (b)	P/D	fuel analysis

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - I
Applicable Limits and Compliance Monitoring Requirements
S-188 Natural Gas & Landfill Gas Fired Turbine Generator with HRSG

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	NSPS Subpart GG, 60.333 (b)	Y		0.8 % sulfur in fuel by weight (natural gas)	Fuel sulfur monitoring requirement subsumed by BAAQMD condition #13271, part 1c. See Permit Shield.	N	
TSP	BAAQMD 6-301	Y		Ringelmann No. 1		N	
	BAAQMD 6-310.3	Y		0.15 grains/dscf @ 6% O ₂		N	
Fuel usage	BAAQMD Condition 13271, part #1b	Y		< 1188 mmbtu/day (HHV) on any fuel	BAAQMD Condition 13271, part #15	P/D	records
Organics & CH ₄	Condition 13271, part #17	N	7/1/2002	Emission Reduction: 98% by weight or concentration less than 120 ppmdv NMOC, as methane and at 3% O ₂	BAAQMD Condition 13271, part #17	C	temperature monitoring
	BAAQMD 8-34-114	N	Expires 7/1/2002	Emission Reduction: 90% by weight	BAAQMD cond# 13271, part #13	P/once every 60 months	source test
	BAAQMD 8-34-301.1	Y		Max Leakage: 1000 ppmv (as CH ₄)	8-34-503	P/Q	Leak testing
Organics & CH ₄	BAAQMD 8-34-301.4	N	7/1/2002	Emission Reduction: 98% by weight or concentration less than 120 ppmdv NMOC, as methane and at 3% O ₂	8-34-509, BAAQMD Condition 13271, part #17	C	temperature monitoring

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - I
Applicable Limits and Compliance Monitoring Requirements
S-188 Natural Gas & Landfill Gas Fired Turbine Generator with HRSG

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Organics & CH ₄	BAAQMD 8-34-301.4	N	7/1/2002	Emission Reduction: 98% by weight or concentration less than 120 ppmv NMOC, as methane and at 3% O ₂	8-34-508	C	gas flow meter
	BAAQMD 8-34-301.4	N	7/1/2002	Emission Reduction: 98% by weight or concentration less than 120 ppmv NMOC, as methane and at 3% O ₂	8-34-412	P/A	source test
	SIP 8-34-114	Y		Emission Reduction: 90% by weight	BAAQMD cond# 13271, part #13	P/once every 60 months	source test

VIII. TEST METHODS

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

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling
BAAQMD 6-311	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling
BAAQMD 8-2-301	Performance Standard - Total Carbon Hydrocarbon Emissions	Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or 25A
BAAQMD 8-34-301.4	Performance Standard - Landfill Gas Collection/Destruction Efficiency	Manual of Procedures Volume IV, ST-7, 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 9-1-304	Fuel Burning Sulfur Limitations	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oil
BAAQMD 9-7-301.1	Performance Standard, NO _x , Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-301.2	Performance Standard, CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-302.1	Performance Standard, NO _x , Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling, ST-14, Oxygen, Continuous Sampling

**Table VIII
Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 9-7-302.2	Performance Standard, CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling

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**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 9-7-305.1	Performance Standard, NOx, Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-305.2	Performance Standard, CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-306.1	Performance Standard, NOx, Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-306.2	Performance Standard, CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-9-301	Performance Standard, NOx Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 11-1-301	Performance Standard - Daily Lead Emission Limit	Manual of Procedures, Volume IV, ST-9, Lead Sampling
BAAQMD 11-3-301	Performance Standard - Daily Beryllium Emission	Manual of Procedures, Volume IV, ST-2 or EPA-104, Beryllium Sampling
BAAQMD 11-5-302	Performance Standard - Daily Mercury Emissions	Manual of Procedures, Volume IV, ST-10, Mercury Sampling
40 CFR 60.332(a)(1)	Performance Standard, NOx Emissions from Stationary Gas Turbines	EPA Method 20, Continuous Emission Monitoring – Nitrogen Oxides
40 CFR 60.333	Performance Standard, SOx Emissions, ppm	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
40 CFR 60.152(a)(1)	Performance Standard, Particulate Emission Rate Limitation	EPA Method 5, Determination of Particulate Matter Emissions
40 CFR 60.152(a)(2)	Visible Emissions Limitation - 20 % Opacity	EPA Method 9 Continuous Opacity Monitoring & 40 CFR 60.11 (Monitoring Requirements – Opacity)
40 CFR Part 61.32	Performance Standard - Daily Beryllium Emissions	EPA Method 104, Determination of Beryllium Emissions from Stationary Sources
40 CFR Part 61.52	Performance Standard - Daily Mercury Emissions	EPA Method 101, Determination of Mercury Emissions from Sewage Sludge Incinerators

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Condition 1716, Part 1	Performance Standard - H2S Concentration - Stack Outlet	Manual of Procedures, Volume IV, ST-28, Hydrogen Sulfide, Integrated Sampling
BAAQMD Cond. #13271, Part 2	NOx Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond. #13271, Part 3	NOx Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond. #13271, Part 4	NOx Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond. #13271, Part 5	CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond. #13271, Part 6	CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond. #13271, Part 8	Visible Emissions, Ringelmann Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD Cond. #16562, Part 3	NOX Limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond. #16562, Part 4	NOX Limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond. #16562, Part 5	CO Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond. #16562, Part 6	Sulfur Content of distillate oil	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils.

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**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Cond. #16562, Part 8	VOC Abatement Efficiency	Manual of Procedures, Volume IV, ST-7, "Organic Compounds" <u>or</u> EPA Method 25 "Determination of Total Gaseous Nonmethane Organic Emissions as Carbon" or 25A "Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer"
BAAQMD Cond. #16563, Part 3	Particulate Limit	EPA Method 5, Determination of Particulate Matter Emissions
BAAQMD Cond. #16563, Part 4	Opacity Limit	EPA Method 9 Continuous Opacity Monitoring & 40 CFR 60.11 (Monitoring Requirements – Opacity)
BAAQMD Cond. #16563, Part 6	Beryllium Limit	Manual of Procedures, Volume IV, ST-2 or EPA-104, Beryllium Sampling
BAAQMD Cond. #16563, Part 7	Mercury Limit	Manual of Procedures, Volume IV, ST-10, Mercury Sampling
BAAQMD Cond. #16563, Part 9	Lead Limit	Manual of Procedures, Volume IV, ST-9, Lead Sampling
BAAQMD Cond. #16563, Part 11a	Sulfur dioxide testing	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
BAAQMD Cond. #16563, Part 11b	Sulfur content of gaseous fuel	Draegar Tube method
BAAQMD Cond. #16563, Part 12	VOC Abatement Requirement	Manual of Procedures, Volume IV, ST-7, "Organic Compounds" <u>or</u> EPA Method 25 "Determination of Total Gaseous Nonmethane Organic Emissions as Carbon" or 25A "Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer"

VIII. Test Methods

IX. Permit shield

A. SUBSUMED REQUIREMENTS

Pursuant to District Regulations 2-6-233 and 2-6-409.12, as of the date this permit is issued, the federally enforceable “subsumed” monitoring requirements cited in the following table do not apply to the source or group of sources identified at the top of the table. The District has determined that compliance with the requirements listed below and elsewhere in this permit will assure compliance with the substantive requirements of the “subsumed” monitoring requirements. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the “subsumed” monitoring requirements cited.

**Table IX-A
 S-188 Natural Gas & Landfill Gas Fired Turbine Generator with HRSG**

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
NSPS Subpart GG	Standards of Performance for Stationary Gas Turbines		
60.334 (b)(2)	Fuel Sulfur monitoring (natural gas)	BAAQMD Condition #13271, part 1c	Requirement for use of PUC quality natural gas
60.334 (b)(2)	Fuel Nitrogen Content monitoring	BAAQMD Condition #13271, part 10	Requirement for CEM monitoring of NOx for BAAQMD 9-9-301.1 limit

X. GLOSSARY

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

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.

IX. Glossary

FE, Federally Enforceable

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

HAP

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by both 40 CFR Part 63, and District Regulation 2, Rule 5.

Major Facility

A facility with potential emissions of regulated air pollutants greater than or equal to 100 tons per year, greater than or equal to 10 tons per year of any single hazardous air pollutant, and/or greater than or equal to 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity as determined by the EPA administrator.

MFR

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

MOP

The District's Manual of Procedures.

NAAQS

National Ambient Air Quality Standards

NESHAPs

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

NMHC

Non-methane Hydrocarbons

NO_x

Oxides of nitrogen.

NSPS

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

IX. Glossary

NSR

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. Applies to emissions of POC, NO_x, PM₁₀, and SO₂.

Phase II Acid Rain Facility

A facility that generates electricity for sale through fossil-fuel combustion and by virtue of certain other characteristics (defined in Regulation 2, Rule 6) is subject to Titles IV and V of the Clean Air Act.

POC

Precursor Organic Compounds

PM

Total Particulate Matter

PM₁₀

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

PSD

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

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

IX. Glossary

Title V

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

TSP

Total Suspended Particulate

VOC

Volatile Organic Compounds

Units of Measure:

bhp	=	brake-horsepower
btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m ²	=	square meter
min	=	minute
mm	=	million
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
yr	=	year

XI. APPLICABLE STATE IMPLEMENTATION PLAN

See Attachments