

Bay Area Air Quality Management District

375 Beale Street, Suite 600
San Francisco, CA 94105
(415) 749-5000

Proposed

MAJOR FACILITY REVIEW PERMIT

Issued To:

Ameresco Half Moon Bay, LLC
Facility # B7040

Facility Address:

12310 San Mateo Road
Half Moon Bay, CA 94019

Mailing Address:

111 Speen Street, Suite 410
Framingham, MA 01701

Responsible Official

Nathan W. Hall
Vice President, Asset Operations
508-598-4374

Facility Contact

Frank Gonzalez
Assistant Regional Manager
831-818-7464

Type of Facility:	Landfill Gas Combustion	BAAQMD Engineering Division Contact:
Primary SIC:	4931	Davis Zhu
Product:	Electrical Generation	

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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

Date

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I. STANDARD CONDITIONS

A. Administrative Requirements

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

- BAAQMD Regulation 1 - General Provisions and Definitions
(as amended by the District Board on 5/4/11);
- SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 6/28/99);
- BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 12/6/17);
- BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 12/6/17);
- BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 12/6/17);
- BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants
(as amended by the District Board on 12/7/16);
- BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 12/6/17); and
- SIP Regulation 2, Rule 6 – Permits, Major Facility Review
(as approved by EPA through 6/23/95)

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

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

I. Standard Conditions

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

I. Standard Conditions

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

C. Requirement to Pay Fees

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

D. Inspection and Entry

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

E. Records

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

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be [date of issuance] to [six months later]. The report shall be submitted by [one month after end of reporting period]. Subsequent reports shall be for the following periods: [____ 1st through ____ 30th or 31st] and [____ 1st through ____ 30th or 31st], 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 by email to compliance@baaqmd.gov or by postal mail to the following address:

Director of Compliance and Enforcement
Bay Area Air Quality Management District

I. Standard Conditions

375 Beale Street, Suite 600
San Francisco, CA 94105
Attn: Title V Reports

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

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be _____ 1st through _____ 30th or 31st. The certification shall be submitted by _____ 30th or 31st of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification shall be sent to the Environmental Protection Agency by email to r9.aeo@epa.gov or by postal mail to the following address:

Director
Enforcement Division, TRI & Air Section (ENF-2-1)
USEPA, Region 9
75 Hawthorne Street
San Francisco, CA 94105

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

H. Emergency Provisions

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

I. Standard Conditions

Volume II, Part 3, §4.8)

I. Severability

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

J. Miscellaneous Conditions

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

II. EQUIPMENT

A. Permitted Source List

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

**Table II – A
 Permitted Sources**

S-#	Description	Make or Type	Model	Capacity
S-1	IC Engine – Genset	GE Jenbacher	JGS 616 GS L.L	2677 bhp, 6090 in ³ , 21.3 MM BTU/hour 1.9 MW (nominal)
S-2	IC Engine – Genset	GE Jenbacher	JGS 616 GS L.L	2677 bhp, 6090 in ³ , 21.3 MM BTU/hour 1.9 MW (nominal)
S-3	IC Engine – Genset	GE Jenbacher	JGS 616 GS L.L	2677 bhp, 6090 in ³ , 21.3 MM BTU/hour 1.9 MW (nominal)
S-4	IC Engine – Genset	GE Jenbacher	JGS 616 GS L.L	2677 bhp, 6090 in ³ , 21.3 MM BTU/hour 1.9 MW (nominal)
S-5	IC Engine – Genset	GE Jenbacher	JGS 616 GS L.L	2677 bhp, 6090 in ³ , 21.3 MM BTU/hour 1.9 MW (nominal)
S-6	IC Engine – Genset	GE Jenbacher	JGS 616 GS L.L	2677 bhp, 6090 in ³ , 21.3 MM BTU/hour 1.9 MW (nominal)
S-7	TSA Gas Treatment System	GE Jenbacher	M4 TSA	Two skids, 8 carbon vessels in series per skid, treats 4000 scfm of LFG
S-8	Tank V3: LFG Condensate Solvent Tank	Custom Made		500-gallon capacity, 0.57 gallons/hour, storing and separating condensate

II. Equipment

B. Abatement Device List

**Table II – B
 Abatement Devices**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-1	Oxidation Catalyst, Miratech, IQ-34-20	S-1	BAAQMD Condition #25465, Parts 3, 9 and 11	230 ppmv CO at 15% O ₂ , See also Table VII-A	≤ 1.8 grams CO per bhp-hour
A-2	Oxidation Catalyst, Miratech, IQ-34-20	S-2	BAAQMD Condition #25465, Parts 3, 9 and 11	230 ppmv CO at 15% O ₂ , See also Table VII-B	≤ 1.8 grams CO per bhp-hour
A-3	Oxidation Catalyst, Miratech, IQ-34-20	S-3	BAAQMD Condition #25465, Parts 3, 9 and 11	230 ppmv CO at 15% O ₂ , See also Table VII-B	≤ 1.8 grams CO per bhp-hour
A-4	Oxidation Catalyst, Miratech, IQ-34-20	S-4	BAAQMD Condition #25465, Parts 3, 9 and 11	230 ppmv CO at 15% O ₂ , See also Table VII-B	≤ 1.8 grams CO per bhp-hour
A-5	Oxidation Catalyst, Miratech, IQ-34-20	S-5	BAAQMD Condition #25465, Parts 3, 9 and 11	230 ppmv CO at 15% O ₂ , See also Table VII-B	≤ 1.8 grams CO per bhp-hour
A-6	Oxidation Catalyst, Miratech, IQ-34-20	S-6	BAAQMD Condition #25465, Parts 3, 9 and 11	230 ppmv CO at 15% O ₂ , See also Table VII-B	≤ 1.8 grams CO per bhp-hour
A-7	Selective Catalytic Reduction System, Miratech, CBL ACIS 20	S-1	BAAQMD Condition #25465, Parts 4, 10 and 11	12 ppmv NO _x at 15% O ₂ , See also Table VII-A	≤ 0.15 grams NO _x per bhp-hour
A-8	Waste Gas Flare; John Zink Enclosed ZTOF, 12 MM BTU/hour	S-7 (carbon desorption process)	BAAQMD Condition # 26865, Parts 4, 5, and 9 and 8-34-301.3, see also Table IV-C	Minimum combustion zone temperature of: 1400 °F, see also Table VII-C	Either 98% destruction of NMOC or < 30 ppmv of NMOC, as CH ₄ , at 3% O ₂ , dry

III. GENERALLY APPLICABLE REQUIREMENTS

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

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

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

The full text of the SIP requirements are available on the EPA Region 9 website.

<https://www.epa.gov/sips-ca/epa-approved-bay-area-air-district-regulations-california-sip>

NOTE:

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

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (5/4/11)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y
BAAQMD Regulation 2, Rule 1	Permits – General Requirements (12/6/17)	N
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (5/28/90)	Y
BAAQMD Regulation 5	Open Burning (6/9/13)	N
SIP Regulation 5	Open Burning (9/4/98)	Y
BAAQMD Regulation 6, Rule 1	Particulate Matter – General Requirements (8/1/18)	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds – General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (7/20/05)	N
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (3/22/95)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds – Architectural Coatings (7/1/09)	N
SIP Regulation 8, Rule 3	Organic Compounds – Architectural Coatings (1/2/04)	Y
BAAQMD Regulation 8, Rule 4	Organic Compounds – General Solvent and Surface Coating Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 15	Organic Compounds – Emulsified and Liquid Asphalts (6/1/94)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/05)	N
SIP Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (4/19/01)	Y
BAAQMD Regulation 8, Rule 47	Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (6/15/05)	N
SIP Regulation 8, Rule 47	Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (4/26/95)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds – Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds – Aerosol Paint Products (3/22/95)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds – Adhesive and Sealant Products (7/17/02)	N
SIP Regulation 8, Rule 51	Organic Compounds – Adhesive and Sealant Products (2/26/02)	Y
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)	N
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99)	Y
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)	N
BAAQMD Regulation 11, Rule 14	Hazardous Pollutants – Asbestos Containing Serpentine (7/17/91)	N
BAAQMD Regulation 11, Rule 18	Reduction of Risk from Air Toxic Emissions at Existing Facilities (11/15/17)	N
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance – Sandblasting (7/11/90)	N

III. Generally Applicable Requirements

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance – Sandblasting (9/2/81)	Y
California Health and Safety Code Section 41750 et seq.	Portable Equipment	N
California Health and Safety Code Section 44300 et seq.	Air Toxics “Hot Spots” Information and Assessment Act of 1987	N
California Health and Safety Code, Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater (11/30/18)	N
40 CFR Part 61, Subpart A	National Emission Standards for Hazardous Air Pollutants – General Provisions (9/24/18)	Y
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (7/20/04)	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

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

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full text of the SIP requirements are available the EPA Region 9 website. The address is:

<https://www.epa.gov/sips-ca/epa-approved-bay-area-air-district-regulations-california-sip>

All other text may be found in the regulations themselves.

Table IV – A
Source-Specific Applicable Requirements
S-1 IC ENGINE - GENSET; ABATED BY
A-7 SELECTIVE CATALYTIC REDUCTION SYSTEM AND A-1 OXIDATION CATALYST

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (5/4/11)		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Reporting requirement for periods of inoperation > 24 hours	Y	
1-523.2	Limit on duration of inoperation	Y	
1-523.3	Reporting requirement for violations of any applicable limits	N	
1-523.4	Records of inoperation, tests, calibrations, adjustments, & maintenance	Y	
1-523.5	Maintenance and calibration	N	
SIP Regulation 1	General Provisions and Definitions (6/28/99)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	

IV. Source Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-1 IC ENGINE - GENSET; ABATED BY
A-7 SELECTIVE CATALYTIC REDUCTION SYSTEM AND A-1 OXIDATION CATALYST

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-523.3	Reports of Violations	Y	
BAAQMD Regulation 6, Rule 1	Particulate Matter – General Requirements (8/1/18)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-302	Opacity Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.1	TSP limit from any source	N	
6-1-310.2	TSP limits for any source with a potential to emit greater than 1000 kg per year of TSP	N	7/1/2020
6-1-401	Appearance of Emissions	N	
6-1-501	Sampling Facilities and Instruments Required	N	
6-1-502	Data, Records, and Reporting	N	
6-1-504	Demonstration of Total Suspended Particles (TSP) Compliance	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-301	Ringelmann No. 1 Limitation	Y	
6-302	Opacity Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8, Rule 34	Organic Compounds – Solid Waste Disposal Sites (6/15/05)		
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-301.2	Collection and Control Systems Leak Limitations	Y	
8-34-301.4	Limits for Other Emission Control Systems	Y	
8-34-412	Compliance Demonstration Tests	Y	
8-34-413	Performance Test Report	Y	
8-34-501	Operating Records	Y	
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.4	Testing	Y	

IV. Source Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-1 IC ENGINE - GENSET; ABATED BY
A-7 SELECTIVE CATALYTIC REDUCTION SYSTEM AND A-1 OXIDATION CATALYST

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.11	Records of Key Emission Control System Operating Parameters	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-508	Gas Flow Meter	Y	
8-34-509	Key emission control system operating parameters	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)		
9-2-301	Limitations on Hydrogen Sulfide	N	
BAAQMD Regulation 9 Rule 8	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (7/25/07)		
9-8-302	Emission Limits – Waste Derived Fuel Gas	N	
9-8-302.1	Lean-Burn Engines: NO _x Emission Limit	N	
9-8-302.3	CO Emission Limit	N	
9-8-501	Initial Demonstration of Compliance	N	
9-8-502	Recordkeeping	N	
9-8-502.3	Records of Compliance Demonstration Tests	N	
9-8-503	Quarterly Demonstration of Compliance	N	
SIP Regulation 9 Rule 8	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (12/15/97)		
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y	
9-8-302.1	Lean-Burn Engines: NO _x Emission Limit	Y	
9-8-302.3	CO Emission Limit	Y	

IV. Source Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-1 IC ENGINE - GENSET; ABATED BY
A-7 SELECTIVE CATALYTIC REDUCTION SYSTEM AND A-1 OXIDATION CATALYST

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR Part 63, Subpart A	National Emission Standards for Hazardous Air Pollutants – General Provisions (9/13/10)		
63.4	Prohibited activities and circumvention	Y	
63.5	Preconstruction review and notification requirements	Y	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	
63.6(f)	Compliance with non-opacity emission standards	Y	
63.10	Record Keeping and reporting requirements	Y	
63.10(b)	General record keeping requirements	Y	
63.10(b)(2)	For affected sources, maintain relevant records of:	Y	
63.10(b)(2)(i-v)	Records for startup, shutdown, malfunction, and maintenance	Y	
63.10(d)	General reporting requirements	Y	
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	
40 CFR Part 63 Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (2/27/14)		
63.6585	Am I subject to this subpart?	Y	
63.6585(a)	A stationary reciprocating internal combustion engine (RICE) is not a non-road engine and is not used to propel a motor vehicle.	Y	
63.6585(b)	A major source of HAPs is a plant that emits or has the potential to emit 10 tons/year or more of any single HAP or 25 tons/year of more of all HAPs combined.	Y	
63.6585(c)	An area source of HAP emissions is a source that is not a major source.	Y	
63.6590	What parts of my plant does this subpart cover?	Y	
63.6590(a)	Affected Source	Y	
63.6590(a)(1)	Existing Stationary RICE	Y	
63.6590(a)(1)(iii)	For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.	Y	

IV. Source Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-1 IC ENGINE - GENSET; ABATED BY
A-7 SELECTIVE CATALYTIC REDUCTION SYSTEM AND A-1 OXIDATION CATALYST

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6595	When do I have to comply with this subpart?	Y	
63.6595(a)	Affected sources	Y	
63.6595(a)(1)	If you have an existing stationary RICE, excluding existing non-emergency CI stationary RICE, with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations, operating limitations and other requirements no later than June 15, 2007. If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than May 3, 2013. If you have an existing stationary SI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than October 19, 2013.	Y	
63.6603	What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?	Y	
63.6603(a)-Table 2d.	Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions	Y	
63.6603(a)-Table 2d (Part 13)	Non-emergency, non-black start stationary RICE which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis	Y	
63.6603(a)-Table 2d (Part 13.a)	Change oil and filter every 1,440 hours of operation or annually, whichever comes first	Y	
63.6603(a)-Table 2d (Part 13.b)	Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary; and	Y	

IV. Source Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-1 IC ENGINE - GENSET; ABATED BY
A-7 SELECTIVE CATALYTIC REDUCTION SYSTEM AND A-1 OXIDATION CATALYST

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6603(a)-Table 2d (Part 13.c)	Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.	Y	
63.6605	What are my general requirements for complying with this subpart?	Y	
63.6605(a)	You must be in compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply to you at all times.	Y	
63.6605(b)	At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.	Y	
63.6625	What are my monitoring, installation, collection, operation, and maintenance requirements?	Y	
63.6625(e)	If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions	Y	
63.6625(e)(6)	An existing non-emergency, non-black start stationary RICE located at an area source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis.	Y	
63.6625(h)	If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.	Y	

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Table IV – A
Source-Specific Applicable Requirements
S-1 IC ENGINE - GENSET; ABATED BY
A-7 SELECTIVE CATALYTIC REDUCTION SYSTEM AND A-1 OXIDATION CATALYST

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6625(j)	If you own or operate a stationary SI engine that is subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or in items 5, 6, 7, 9, or 11 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.	Y	
63.6640	How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?	Y	
63.6640(a)	You must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart.	Y	
63.6640(e)	You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you.	Y	
63.6655	What records must I keep?	Y	
63.6655(d)	You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you.	Y	

IV. Source Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-1 IC ENGINE - GENSET; ABATED BY
A-7 SELECTIVE CATALYTIC REDUCTION SYSTEM AND A-1 OXIDATION CATALYST

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6655(e)	You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE	Y	
63.6655(e)(3)	An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart.	Y	
63.6650	What reports must I submit and when?	Y	
63.6650(f)	Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.	Y	
63.6660	In what form and how long must I keep my records?	Y	
63.6660(a)	Your records must be in a form suitable and readily available for expeditious review according to § 63.10(b)(1).	Y	
63.6660(b)	As specified in § 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Y	
63.6660(c)	You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to § 63.10(b)(1).	Y	
BAAQMD Condition # 25465			
Part 1	Fuel Restrictions and Bypass Event Limitations (Regulation 2-5-301 and Cumulative Increase)	Y	

IV. Source Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-1 IC ENGINE - GENSET; ABATED BY
A-7 SELECTIVE CATALYTIC REDUCTION SYSTEM AND A-1 OXIDATION CATALYST

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	Heat Input Limits and Monitoring Requirements (Cumulative Increase and Offsets)	Y	
Part 3	CO Emission Limits and Monitoring Requirements (BACT and Cumulative Increase)	Y	
Part 4	NOx Emission Limits and Monitoring Requirements (BACT and Offsets)	Y	
Part 6	Start-up and Shut-down Period Limitations (Cumulative Increase)	Y	
Part 7	POC Emission Limits and Monitoring Requirements (Regulations 8-34-301.4 and 8-34-509, BACT and Cumulative Increase)	Y	
Part 8	SO2 Emission Limits, Landfill Gas TRS Content Limits and Monitoring Procedures (BACT and Cumulative Increase)	Y	
Part 9	Oxidation Catalyst Operating Requirements (BACT)	Y	
Part 10	Selective Catalytic Reduction System Operating Requirements (BACT)	Y	
Part 12	Annual Source Testing Requirements (BACT, Offsets, and Cumulative Increase, and Regulations 2-5-301, 2-5-302, 2-6-423.2.1, 8-34-301.4, 8-34-412, 9-1-302, 9-8-302.1, and 9-8-302.3)	Y	
Part 13	Records (Recordkeeping, BACT, Offsets, Cumulative Increase, Regulations 8-34-501.10, 8-34-501.11, 9-8-503)	Y	
BAAQMD Condition # 26864			
Part 1	Facility-Wide CO Emissions Limit (Cumulative Increase – Avoidance of PSD)	Y	
Part 2	Facility-Wide Record Keeping Requirements (Cumulative Increase – Avoidance of PSD)	Y	

IV. Source Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-2 IC ENGINE – GENSET ABATED BY A-2 OXIDATION CATALYST;
S-3 IC ENGINE – GENSET ABATED BY A-3 OXIDATION CATALYST;
S-4 IC ENGINE – GENSET ABATED BY A-4 OXIDATION CATALYST;
S-5 IC ENGINE – GENSET ABATED BY A-5 OXIDATION CATALYST;
S-6 IC ENGINE – GENSET ABATED BY A-6 OXIDATION CATALYST;

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (5/4/11)		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Reporting requirement for periods of inoperation > 24 hours	Y	
1-523.2	Limit on duration of inoperation	Y	
1-523.3	Reporting requirement for violations of any applicable limits	N	
1-523.4	Records of inoperation, tests, calibrations, adjustments, & maintenance	Y	
1-523.5	Maintenance and calibration	N	
SIP Regulation 1	General Provisions and Definitions (6/28/99)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reports of Violations	Y	
BAAQMD Regulation 6, Rule 1	Particulate Matter – General Requirements (8/1/18)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-302	Opacity Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.1	TSP limit from any source	N	
6-1-310.2	TSP limits for any source with a potential to emit greater than 1000 kg per year of TSP	N	7/1/2020
6-1-401	Appearance of Emissions	N	
6-1-501	Sampling Facilities and Instruments Required	N	
6-1-502	Data, Records, and Reporting	N	
6-1-504	Demonstration of Total Suspended Particles (TSP) Compliance	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		

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Table IV – B
Source-Specific Applicable Requirements
S-2 IC ENGINE – GENSET ABATED BY A-2 OXIDATION CATALYST;
S-3 IC ENGINE – GENSET ABATED BY A-3 OXIDATION CATALYST;
S-4 IC ENGINE – GENSET ABATED BY A-4 OXIDATION CATALYST;
S-5 IC ENGINE – GENSET ABATED BY A-5 OXIDATION CATALYST;
S-6 IC ENGINE – GENSET ABATED BY A-6 OXIDATION CATALYST;

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-301	Ringelmann No. 1 Limitation	Y	
6-302	Opacity Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8, Rule 34	Organic Compounds – Solid Waste Disposal Sites (6/15/05)		
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-301.2	Collection and Control Systems Leak Limitations	Y	
8-34-301.4	Limits for Other Emission Control Systems	Y	
8-34-412	Compliance Demonstration Tests	Y	
8-34-413	Performance Test Report	Y	
8-34-501	Operating Records	Y	
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.4	Testing	Y	
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.11	Records of Key Emission Control System Operating Parameters	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-508	Gas Flow Meter	Y	
8-34-509	Key emission control system operating parameters	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	

IV. Source Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-2 IC ENGINE – GENSET ABATED BY A-2 OXIDATION CATALYST;
S-3 IC ENGINE – GENSET ABATED BY A-3 OXIDATION CATALYST;
S-4 IC ENGINE – GENSET ABATED BY A-4 OXIDATION CATALYST;
S-5 IC ENGINE – GENSET ABATED BY A-5 OXIDATION CATALYST;
S-6 IC ENGINE – GENSET ABATED BY A-6 OXIDATION CATALYST;

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)		
9-2-301	Limitations on Hydrogen Sulfide	N	
BAAQMD Regulation 9 Rule 8	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (7/25/07)		
9-8-302	Emission Limits – Waste Derived Fuel Gas	N	
9-8-302.1	Lean-Burn Engines: NO _x Emission Limit	N	
9-8-302.3	CO Emission Limit	N	
9-8-501	Initial Demonstration of Compliance	N	
9-8-502	Recordkeeping	N	
9-8-502.3	Records of Compliance Demonstration Tests	N	
9-8-503	Quarterly Demonstration of Compliance	N	
SIP Regulation 9 Rule 8	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (12/15/97)		
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y	
9-8-302.1	Lean-Burn Engines: NO _x Emission Limit	Y	
9-8-302.3	CO Emission Limit	Y	
40 CFR Part 63, Subpart A	National Emission Standards for Hazardous Air Pollutants – General Provisions (9/13/10)		
63.4	Prohibited activities and circumvention	Y	
63.5	Preconstruction review and notification requirements	Y	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	
63.6(f)	Compliance with non-opacity emission standards	Y	
63.10	Record Keeping and reporting requirements	Y	

IV. Source Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-2 IC ENGINE – GENSET ABATED BY A-2 OXIDATION CATALYST;
S-3 IC ENGINE – GENSET ABATED BY A-3 OXIDATION CATALYST;
S-4 IC ENGINE – GENSET ABATED BY A-4 OXIDATION CATALYST;
S-5 IC ENGINE – GENSET ABATED BY A-5 OXIDATION CATALYST;
S-6 IC ENGINE – GENSET ABATED BY A-6 OXIDATION CATALYST;

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.10(b)	General record keeping requirements	Y	
63.10(b)(2)	For affected sources, maintain relevant records of:	Y	
63.10(b)(2)(i-v)	Records for startup, shutdown, malfunction, and maintenance	Y	
63.10(d)	General reporting requirements	Y	
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	
40 CFR Part 63 Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (2/27/14)		
63.6585	Am I subject to this subpart?	Y	
63.6585(a)	A stationary reciprocating internal combustion engine (RICE) is not a non-road engine and is not used to propel a motor vehicle.	Y	
63.6585(b)	A major source of HAPs is a plant that emits or has the potential to emit 10 tons/year or more of any single HAP or 25 tons/year of more of all HAPs combined.	Y	
63.6585(c)	An area source of HAP emissions is a source that is not a major source.	Y	
63.6590	What parts of my plant does this subpart cover?	Y	
63.6590(a)	Affected Source	Y	
63.6590(a)(1)	Existing Stationary RICE	Y	
63.6590(a)(1)(iii)	For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.	Y	
63.6595	When do I have to comply with this subpart?	Y	
63.6595(a)	Affected sources	Y	

IV. Source Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-2 IC ENGINE – GENSET ABATED BY A-2 OXIDATION CATALYST;
S-3 IC ENGINE – GENSET ABATED BY A-3 OXIDATION CATALYST;
S-4 IC ENGINE – GENSET ABATED BY A-4 OXIDATION CATALYST;
S-5 IC ENGINE – GENSET ABATED BY A-5 OXIDATION CATALYST;
S-6 IC ENGINE – GENSET ABATED BY A-6 OXIDATION CATALYST;

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6595(a)(1)	<p>If you have an existing stationary RICE, excluding existing non-emergency CI stationary RICE, with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations, operating limitations and other requirements no later than June 15, 2007. If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than May 3, 2013. If you have an existing stationary SI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than October 19, 2013.</p>	Y	
63.6603	What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?	Y	
63.6603(a)-Table 2d.	Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions	Y	
63.6603(a)-Table 2d (Part 13)	Non-emergency, non-black start stationary RICE which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis	Y	
63.6603(a)-Table 2d (Part 13.a)	Change oil and filter every 1,440 hours of operation or annually, whichever comes first	Y	

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Table IV – B
Source-Specific Applicable Requirements
S-2 IC ENGINE – GENSET ABATED BY A-2 OXIDATION CATALYST;
S-3 IC ENGINE – GENSET ABATED BY A-3 OXIDATION CATALYST;
S-4 IC ENGINE – GENSET ABATED BY A-4 OXIDATION CATALYST;
S-5 IC ENGINE – GENSET ABATED BY A-5 OXIDATION CATALYST;
S-6 IC ENGINE – GENSET ABATED BY A-6 OXIDATION CATALYST;

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6603(a)-Table 2d (Part 13.b)	Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary; and	Y	
63.6603(a)-Table 2d (Part 13.c)	Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.	Y	
63.6605	What are my general requirements for complying with this subpart?	Y	
63.6605(a)	You must be in compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply to you at all times.	Y	
63.6605(b)	At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.	Y	
63.6625	What are my monitoring, installation, collection, operation, and maintenance requirements?	Y	
63.6625(e)	If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions	Y	
63.6625(e)(6)	An existing non-emergency, non-black start stationary RICE located at an area source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis.	Y	

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Table IV – B
Source-Specific Applicable Requirements
S-2 IC ENGINE – GENSET ABATED BY A-2 OXIDATION CATALYST;
S-3 IC ENGINE – GENSET ABATED BY A-3 OXIDATION CATALYST;
S-4 IC ENGINE – GENSET ABATED BY A-4 OXIDATION CATALYST;
S-5 IC ENGINE – GENSET ABATED BY A-5 OXIDATION CATALYST;
S-6 IC ENGINE – GENSET ABATED BY A-6 OXIDATION CATALYST;

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6625(h)	If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.	Y	
63.6625(j)	If you own or operate a stationary SI engine that is subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or in items 5, 6, 7, 9, or 11 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.	Y	
63.6640	How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?	Y	

IV. Source Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-2 IC ENGINE – GENSET ABATED BY A-2 OXIDATION CATALYST;
S-3 IC ENGINE – GENSET ABATED BY A-3 OXIDATION CATALYST;
S-4 IC ENGINE – GENSET ABATED BY A-4 OXIDATION CATALYST;
S-5 IC ENGINE – GENSET ABATED BY A-5 OXIDATION CATALYST;
S-6 IC ENGINE – GENSET ABATED BY A-6 OXIDATION CATALYST;

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6640(a)	You must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart.	Y	
63.6640(e)	You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you.	Y	
63.6655	What records must I keep?	Y	
63.6655(d)	You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you.	Y	
63.6655(e)	You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE	Y	
63.6655(e)(3)	An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart.	Y	
63.6650	What reports must I submit and when?	Y	
63.6650(f)	Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.	Y	
63.6660	In what form and how long must I keep my records?	Y	
63.6660(a)	Your records must be in a form suitable and readily available for expeditious review according to § 63.10(b)(1).	Y	

IV. Source Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-2 IC ENGINE – GENSET ABATED BY A-2 OXIDATION CATALYST;
S-3 IC ENGINE – GENSET ABATED BY A-3 OXIDATION CATALYST;
S-4 IC ENGINE – GENSET ABATED BY A-4 OXIDATION CATALYST;
S-5 IC ENGINE – GENSET ABATED BY A-5 OXIDATION CATALYST;
S-6 IC ENGINE – GENSET ABATED BY A-6 OXIDATION CATALYST;

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6660(b)	As specified in § 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Y	
63.6660(c)	You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to § 63.10(b)(1).	Y	
BAAQMD Condition # 25465			
Part 1	Fuel Restrictions and Bypass Event Limitations (Regulation 2-5-301 and Cumulative Increase)	Y	
Part 2	Heat Input Limits and Monitoring Requirements (Cumulative Increase and Offsets)	Y	
Part 3	CO Emission Limits and Monitoring Requirements (BACT and Cumulative Increase)	Y	
Part 5	NOx Emission Limits and Monitoring Requirements (Offsets)	Y	
Part 6	Start-up and Shut-down Period Limitations (Cumulative Increase)	Y	
Part 7	POC Emission Limits and Monitoring Requirements (Regulations 8-34-301.4 and 8-34-509, BACT and Cumulative Increase)	Y	
Part 8	SO2 Emission Limits, Landfill Gas TRS Content Limits and Monitoring Procedures (BACT and Cumulative Increase)	Y	
Part 9	Oxidation Catalyst Operating Requirements (BACT)	Y	
Part 11	Annual Source Testing Requirements (BACT, Offsets, and Cumulative Increase, and Regulations 2-5-301, 2-5-302, 2-6-423.2.1, 8-34-301.4, 8-34-412, 9-1-302, 9-8-302.1, and 9-8-302.3)	Y	
Part 12	Records (Recordkeeping, BACT, Offsets, Cumulative Increase, Regulations 8-34-501.10, 8-34-501.11, 9-8-503)	Y	
BAAQMD Condition # 26864			

IV. Source Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-2 IC ENGINE – GENSET ABATED BY A-2 OXIDATION CATALYST;
S-3 IC ENGINE – GENSET ABATED BY A-3 OXIDATION CATALYST;
S-4 IC ENGINE – GENSET ABATED BY A-4 OXIDATION CATALYST;
S-5 IC ENGINE – GENSET ABATED BY A-5 OXIDATION CATALYST;
S-6 IC ENGINE – GENSET ABATED BY A-6 OXIDATION CATALYST;

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Facility-Wide CO Emissions Limit (Cumulative Increase – Avoidance of PSD)	Y	
Part 2	Facility-Wide Record Keeping Requirements (Cumulative Increase – Avoidance of PSD)	Y	

IV. Source Specific Applicable Requirements

Table IV – C
Source-Specific Applicable Requirements
S-7 TSA GAS TREATMENT SYSTEM; ABATED BY
A-8 WASTE GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (5/4/11)		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Reporting requirement for periods of inoperation > 24 hours	Y	
1-523.2	Limit on duration of inoperation	Y	
1-523.3	Reporting requirement for violations of any applicable limits	N	
1-523.4	Records of inoperation, tests, calibrations, adjustments, & maintenance	Y	
1-523.5	Maintenance and calibration	N	
SIP Regulation 1	General Provisions and Definitions (6/28/99)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reports of Violations	Y	
BAAQMD Regulation 6, Rule 1	Particulate Matter – General Requirements (8/1/18)		
6-1-301	Ringelmann No. 1 Limitation (applies to A-8 only)	N	
6-1-302	Opacity Limitation	N	
6-1-305	Visible Particles (applies to A-8 only)	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits (applies to A-8 only)	N	
6-1-310.1	TSP limit from any source	N	
6-1-401	Appearance of Emissions (applies to A-8 only)	N	
6-1-501	Sampling Facilities and Instruments Required	N	
6-1-502	Data, Records, and Reporting	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-301	Ringelmann No. 1 Limitation (applies to A-8 only)	Y	
6-302	Opacity Limitation (applies to A-8 only)	Y	
6-305	Visible Particles (applies to A-8 only)	Y	
6-310	Particle Weight Limitation (applies to A-8 only)	Y	

IV. Source Specific Applicable Requirements

Table IV – C
Source-Specific Applicable Requirements
S-7 TSA GAS TREATMENT SYSTEM; ABATED BY
A-8 WASTE GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-401	Appearance of Emissions (applies to A-8 only)	Y	
BAAQMD Regulation 8, Rule 34	Organic Compounds – Solid Waste Disposal Sites (6/15/05)		
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-301.2	Collection and Control Systems Leak Limitations	Y	
8-34-301.3	Limits for Enclosed Flares (applies to A-8 only)	Y	
8-34-412	Compliance Demonstration Tests (applies to A-8 only)	Y	
8-34-413	Performance Test Report (applies to A-8 only)	Y	
8-34-501	Operating Records	Y	
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.3	Continuous Temperature Records for Enclosed Combustors (applies to A-8 only)	Y	
8-34-501.4	Testing	Y	
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-507	Continuous Temperature Monitor and Recorder (applies to A-8 only)	Y	
8-34-508	Gas Flow Meter	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations (applies to A-8 only)	Y	
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)		
9-2-301	Limitations on Hydrogen Sulfide	N	
BAAQMD Condition # 26865			

IV. Source Specific Applicable Requirements

Table IV – C
Source-Specific Applicable Requirements
S-7 TSA GAS TREATMENT SYSTEM; ABATED BY
A-8 WASTE GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Landfill Gas Treatment Requirement and Throughput Limit (Cumulative Increase)	Y	
Part 2	Waste Gas Abatement Requirement (Regulation 8-34-301, BACT and Cumulative Increase)	Y	
Part 3	Heat Input Limit for Flare and Monitoring Requirements (Regulations 8-34-501.10, 8-34-508, Offsets and Cumulative Increase)	Y	
Part 4	NMOC Emission Limits for Flare (Regulation 8-34-301.3 and BACT)	Y	
Part 5	Combustion Zone Temperature Limit for Flare, Temperature Monitoring Requirements, and Records (Regulations 8-34-501.3 and 8-34-507, BACT, and TBACT)	Y	
Part 6	NO _x Emissions Limits for Flare (RACT)	Y	
Part 7	CO Emissions Limits for Flare (RACT)	Y	
Part 8	SO ₂ Emission Limits and Monitoring Procedures for Flare (RACT, Cumulative Increase and Regulation 9-1-302)	Y	
Part 9	Annual Source Testing Requirements for Flare (Regulations 2-5-302, 8-34-301.3, 8-34-412, and 9-1-302, RACT, BACT, and TBACT)	Y	
Part 10	Record Keeping Requirements (Regulations 2-5-301, 2-5-302, 8-34-501.3, 8-34-501.10, BACT, RACT, Cumulative Increase and Offsets)	Y	
Part 11	Annual Landfill Gas Characterization Analyses (Regulations 2-1-403 and 2-5-501)	Y	
BAAQMD Condition # 26864			
Part 1	Facility-Wide CO Emissions Limit (Cumulative Increase – Avoidance of PSD)	Y	
Part 2	Facility-Wide Record Keeping Requirements (Cumulative Increase – Avoidance of PSD)	Y	

IV. Source Specific Applicable Requirements

Table IV – D
Source-Specific Applicable Requirements
S-8 LFG CONDENSATE SOLVENT TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 26782			
Part 1	Throughput Limit (Cumulative Increase)	Y	
Part 2	Record Keeping Requirements (Cumulative Increase)	Y	

V. SCHEDULE OF COMPLIANCE

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

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

Condition # 25465

FOR S-1 IC ENGINE – GENSET; ABATED BY A-7 SELECTIVE CATALYTIC REDUCTION SYSTEM AND A-1 OXIDATION CATALYST;

FOR S-2 IC ENGINE – GENSET; ABATED BY A-2 OXIDATION CATALYST;

FOR S-3 IC ENGINE – GENSET; ABATED BY A-3 OXIDATION CATALYST;

FOR S-4 IC ENGINE – GENSET; ABATED BY A-4 OXIDATION CATALYST;

FOR S-5 IC ENGINE – GENSET; ABATED BY A-5 OXIDATION CATALYST;

FOR S-6 IC ENGINE – GENSET; ABATED BY A-6 OXIDATION CATALYST;

FOR: A-8 WASTE GAS FLARE

1. The owner/operator shall fire the IC Engines (Sources 1 through 6-S-1 through S-6) exclusively on treated landfill gas fuel that has been processed through the S-7 TSA Gas Treatment System, except during start-up or shut-down of the engines. During start-up and shut-down events, the owner/operator may fire the S-1 through S-6 IC Engines on: (a) minimally treated landfill gas received directly from the landfill (that has undergone filtering and dewatering only), (b) partially treated gas that has bypassed one or more processes in the S-7 TSA Gas Treatment System, (c) pilot fuel gas, or (d) a combination of these gases; for short periods of time as needed to clear piping and to safely start-up or shut-down the engines. Alternatively, landfill gas may be vented to the A-8 Waste Gas Flare when needed to safely start-up or shut-down the engines. Under no circumstances shall landfill gas be vented to the atmosphere without abatement. (Basis: ~~TBACT~~, Regulation 2-5-301 and Cumulative Increase)
2. The owner/operator shall ensure that the throughput to each IC Engine (S-1 through S-6) does not exceed 355 million standard cubic feet of treated landfill gas during any consecutive 12-month period per engine or an equivalent and that the total heat content of input rate to each IC Engine (S-1 through S-6) does not exceed 180,000 million BTUs (HHV) per engine during any consecutive 12-month period. To demonstrate compliance with these limits, each engine shall be equipped with a continuous gas flow meter and recorder. The owner/operator shall ensure that the gas flow meter is properly calibrated and is maintained in good working order at all times. The owner/operator shall also determine the heat content of the treated landfill gas fuel delivered to the IC Engines at least once per month using gas chromatograph analyses, methane content measurements, or other District-approved analysis and calculation procedures. Based on the gas flow rate and heat content data determined above, the owner/operator shall

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calculate the landfill gas flow rate and heat input rate to each engine for each calendar month and for each consecutive rolling 12-month period and shall record this data in a data acquisition system or electronic spreadsheet. (Basis: Cumulative Increase and Offsets)

- ~~2. The owner/operator shall abate any landfill gas not used at Sources 1 through 6 with A-8, Flare, where the landfill gas fuel usage is not to exceed 158 million standard cubic feet or an equivalent heat content of 79 million BTUs during any consecutive 12 month period. (Basis: Cumulative Increase)~~
3. The owner/operator shall ~~not allow emissions from each of Sources 1 through 6 to exceed~~ensure that emissions of carbon monoxide (CO) from each IC Engine (S-1 through S-6) do not exceed 1.8 grams of ~~carbon monoxide (CO)~~ per brake-horsepower-hour, averaged over ~~a 24-hour~~the test period, ~~except during~~excluding start-up and shut-down periods. The owner/operator shall demonstrate compliance with this emission limit by conducting annual source testing as required by Part 12 and by conducting quarterly monitoring as required by Regulation 9-8-503. During quarterly monitoring events or other exhaust concentration testing events, the owner/operator shall ensure that carbon monoxide concentration in the engine exhaust does not exceed 230 ppmv of CO, corrected to 15% oxygen, dry basis. (Basis: BACT and Cumulative Increase)
4. The owner/operator shall ~~not allow emissions from Source 1 to exceed~~ensure that emissions of nitrogen oxides (NO_x) from the S-1 IC Engine do not exceed 0.15 grams of NO_x, calculated as NO₂, nitrogen oxide (NO_x, calculated as NO₂) per brake-horsepower-hour, averaged over ~~a 24-hour period~~the test period, ~~except during~~excluding start-up and shut-down periods. The owner/operator shall demonstrate compliance with this emission limit by conducting annual source testing as required by Part 12 and by conducting quarterly monitoring as required by Regulation 9-8-503. During quarterly monitoring events or other exhaust concentration testing events, the owner/operator shall ensure that nitrogen oxide concentration in the S-1 engine exhaust does not exceed 12 ppmv of NO_x, corrected to 15% oxygen, dry basis. (Basis: BACT and Offsets)
5. The owner/operator shall ~~not allow emissions from each of Sources 2 through 6 to exceed~~ensure that emissions of nitrogen oxides (NO_x) from each other IC Engine (S-2 through S-6) do not exceed 0.60 grams of NO_x, calculated as NO₂, NO_x calculated as NO₂ per brake-horsepower-hour, averaged over the test period, ~~except during~~excluding start-up and shut-down periods. The owner/operator shall demonstrate compliance with this emission limit by conducting annual source testing as required by Part 12 and by conducting quarterly monitoring as required by Regulation 9-8-503. During quarterly monitoring events or other exhaust

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- concentration testing events, the owner/operator shall ensure that nitrogen oxide concentration in the exhaust from engines S-2 through S-6 does not exceed 44 ppmv as NO_x, corrected to 15% oxygen, dry basis. (Basis: ~~Offsets~~Cumulative Increase)
6. The owner/operator shall ensure that the start-up period for each IC Engine does not exceed one (1) hour ~~for start-up or~~ and that the shut-down period for each IC Engine does not exceed one (1) hour ~~for shutdown~~. (Basis: Cumulative Increase)
 7. The owner/operator shall ~~not allow emissions from each of Sources 1 through 6 to exceed~~ensure that emissions of precursor organic compounds (POC) from each IC Engine (S-1 through S-6) do not exceed 0.20 grams of precursor organic compound (POC) per brake-horsepower-hour, averaged over a three-hour test period and that total POC concentration in the engine exhaust does not exceed 40 ppmv, expressed as methane, corrected to 15% oxygen, dry basis. Note: This requirement is equivalent to NMOC emission rate less than 120 ppmv at the outlet, dry basis, expressed as methane, corrected to 3% oxygen. The owner/operator shall demonstrate compliance with these limits by conducting annual source testing as required by Part 12. Measurement of total non-methane organic compound (NMOC) shall be assumed to be equal to POC, unless the measurement for total NMOC also includes simultaneous measurement for specific non-precursor organic compounds, including but not limited to: ethane, acetone, perchloroethylene, and chlorofluorocarbons. In this latter case, the NPOC amounts may be subtracted from total NMOC to calculate the POC emission rate. To demonstrate on-going compliance with the POC limit above and Regulation 8-34-509, the owner/operator shall use outlet carbon monoxide concentration corrected to 15% oxygen (dry basis) and the Part 3 limits and monitoring procedures as the key emission control system operating parameters for these engines. (Basis: Regulations 8-34-301.4 and 8-34-509, BACT and Cumulative Increase)
 8. The owner/operator shall ensure that the concentration of total reduced sulfur compounds in the landfill gas fuel burned at ~~Sources 1 through 6 and A-8 to the engines (S-1 through S-6)~~ does not exceed 150 ppmv, expressed as H₂S. To demonstrate compliance with this requirement, the owner/operator shall use either a District approved portable hydrogen sulfide monitor or a District laboratory analysis method to determine the concentration of TRS (measured as H₂S) in the treated landfill gas fuel that is delivered to the engines on a quarterly basis. The sampling dates and results shall be recorded in a District approved log. If the portable H₂S analysis method is used, the TRS concentration shall be calculated by multiplying the measured H₂S concentration by 1.205 (TRS = 1.205 * H₂S). If a laboratory analysis method is used, the TRS concentration shall be calculated as

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- the sum of the measured concentrations for the individual sulfur compounds, expressed as H₂S. (Basis: BACT and Cumulative Increase)
9. The owner/operator shall ensure that emissions from each IC Engine (S-1 through S-6) are abated ~~CO emissions from Sources 1 through 6 with by the associated~~ CO Oxidation Catalyst, A-1 through A-6, respectively, at all times. The owner/operator shall ensure that each CO Oxidation Catalyst is properly maintained and that catalyst is replaced in accordance with manufacturer recommendations. (Basis: BACT)
10. The owner/operator shall ensure that emissions from the S-1 IC Engine are also abated ~~NOX emissions from Source 1 with an SCR System (by the A-7, Selective Catalytic Reduction (SCR) System) to control NO_x emissions, at all times other than start-up and shut-down periods described in Part 6, and the A-7 SCR catalyst bed has reached minimum operating temperature.~~ The owner/operator shall ensure that the A-7 SCR System is properly maintained and operated, and that catalyst is replaced in accordance with manufacturer recommendations. (Basis: BACT)
- ~~11. When landfill gas is combusted at A-8, the owner/operator shall operate A-8 with a minimum combustion zone temperature of 1400 degrees F, averaged over a 3-hour period. (Basis: Cumulative Increase)~~
- ~~12. The owner/operator shall not exceed the combined CO emissions from Sources 1 through 6 and A-8 to exceed 238 tons during any consecutive 12-month period. (Basis: Cumulative Increase)~~
- ~~13. To demonstrate compliance with Part 1, if the basis for compliance is the heat content of the fuel, the owner/operator shall install and maintain a gas chromatograph (GC) monitor that measures the heat content of the landfill gas fuel at a minimum of once per month. (Basis: Cumulative Increase)~~
11. To demonstrate compliance with Parts 3, 4, 5, 7, 8, Regulations 9-1-302, 9-8-302.1, and 9-8-302.3, the owner/operator shall conduct a District-approved source test at least every 12 months from the date of the last successful test with an initial source test conducted within 60 days from the issuance of the Permit to Operate on an annual basis. Tests shall be conducted no later than 12 months after the previous annual source test, except subpart 1 (subpart 1 TACs shall be tested at least every 4 years). Each annual source test shall determine the following:
- Operating rate for each engine during the test period (bhp);
 - Total flow rate of all gaseous fuel to each engine (dry basis, sdcfm);

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- c. Concentrations (dry basis) of carbon dioxide (CO₂), nitrogen (N₂), oxygen (O₂), methane (CH₄), total non-methane organic compounds (NMOC), hydrogen sulfide (H₂S), and total reduced sulfur compounds (TRS) in the gaseous fuel burned in the engines (percent by volume or ppmv);
- d. High heating value for the landfill gas (BTU/scf);
- e. Heat input rate to each engine averaged over the test period (BTU/hour);
- f. Exhaust gas flow rate from each engine based on EPA Method 19 (dry basis, scfm);
- g. Concentrations (dry basis) of NO_x, CO, CH₄, NMOC, SO₂, and O₂ in the exhaust gas from each engine (ppmv or percent by volume);
- h. NO_x, CO, and POC concentrations corrected to 15% O₂ in the exhaust gas from each engine (ppmv);
- i. NO_x, CO, and POC emission rates from each engine (grams/bhp-hour);
- j. NMOC concentrations corrected to 3% O₂ in the exhaust gas from each engine (ppmv);
- k. NMOC and methane destruction efficiencies achieved by each engine (weight percent);
- *l. Benzene, Formaldehyde, Acetaldehyde, and PAH emission rates from each engine (pounds/hour and grams/bhp-hour);

The owner/operator shall obtain approval for all source test procedures from the District's Source Test Section prior to conducting any tests. The owner/operator shall comply with all applicable testing requirements as specified in Volume IV of the District's Manual of Procedures. The owner/operator shall notify the District's Source Test Section, in writing, of the source test protocols and projected test dates at least 7 days prior to testing. The results shall be submitted within 45 days of the test date. (Basis: [BACT](#), [Cumulative Increase](#), [Regulations 2-5-301](#), [2-5-302](#), [8-34-301.4](#), [8-34-412](#), [9-1-302](#), [9-8-302.1](#), and [9-8-302.3](#))

12. The owner/operator shall maintain the following records:
- a. Dates and times of startups and shutdowns of Sources 1 through 6 and the reason for each shutdown;
 - b. Dates and time of any maintenance activity to Sources 1 through 6, the fuel cleanup system and emission control equipment, A-1 through A-7, including the reason, description of the activity and any corrective actions;
 - c. For each of Sources 1 through 6, the monthly landfill gas flow rate, corrected to standard conditions or the heat content of the landfill gas fuel burned;
 - d. Any calculations needed to report the flow rate or heat content measured pursuant to Parts 1 and 2 in units of standard cubic feet or million BTU, respectively;
 - e. Monthly operating time, in hours, for each of Sources 1 through 6;
 - f. Where applicable, rolling 12-month totals of the landfill gas fuel flow rate,

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landfill gas fuel heat content and operating time for each source specified in this part; and

- g. Records of all monitoring and source testing events (dates, calculations, and results).

The owner/operator shall keep all records onsite and available to the District staff upon request with a retention of at least 5 years from the date of entry. (Basis: Recordkeeping, BACT, Offsets, Cumulative Increase, Regulations 8-34-501.10, 8-34-501.11, 9-8-503)

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FACILITY WIDE CONDITIONS FOR SITE # B7040:

1. The owner/operator shall ensure that the total combined carbon monoxide (CO) emissions from S-1, S-2, S-3, S-4, S-5, S-6, and A-8 do not exceed 238 tons during any consecutive rolling ~~4-quarter~~12-month period. (Basis: Cumulative Increase and Avoidance of PSD)
2. To demonstrate compliance with Part 1, the owner/operator shall calculate and record the CO emissions from each device (S-1, S-2, S-3, S-4, S-5, S-6, and A-8), on a quarterly basis, using operating rate records, gas flow rate data, quarterly monitoring data, and source test data. The owner/operator shall summarize and record this CO emissions data for all devices for each quarter and for each consecutive rolling ~~4-quarter~~12-month period. Records shall be maintained onsite or made readily available to District staff upon request. All records shall be retained for a minimum of five years from the date of entry. (Basis: Cumulative Increase)

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Condition # 26865

FOR S-7 TSA GAS TREATMENT SYSTEM; ABATED BY A-8 WASTE GAS FLARE:

1. The owner/operator shall ensure that the S-7 TSA Gas Treatment System processes all collected landfill gas delivered to S-7 from the adjacent landfill, and that S-7 processes no more than 2130 million standard cubic feet of landfill gas during any consecutive 12-month period. (Basis: Cumulative Increase)
2. The owner/operator shall ensure that any treated or partially treated landfill gas that is not burned in the IC engines (S-1 through S-6) is abated by the A-8 Waste Gas Flare. In addition, any waste gas generated at S-7 during the carbon desorption cycle shall be abated by the A-8 Waste Gas Flare. Landfill gas delivered from the adjacent landfill or treated landfill gas produced by S-7 may be blended with waste gas produced by S-7 as necessary to ensure proper operation of A-8. The A-8 Waste Gas Flare shall operate continuously during any time that waste gas or landfill gas is vented to A-8. (Basis: Regulation 8,34-301, BACT and Cumulative Increase)
3. The owner/operator shall ensure that the total combined flow rate of landfill gas fuel and waste gases sent to A-8 shall not exceed 158 million standard cubic feet (MM scf) during any consecutive 12-month period, and that the total heat input rate to the A-8 Waste Gas Flare shall not exceed 79,000 million BTU (MM BTU), based on the high heating value of the gases, during any consecutive 12-month period. To demonstrate compliance with this part, the A-8 Flare shall be equipped with a continuous gas flow meter and recorder. The owner/operator shall calculate and record the heat content of the waste gases and fuel delivered to A-8 on a monthly basis using monthly methane content measurements or other District approved methods and shall calculate and record the heat input to A-8 using the continuous gas flow rate data and the heat content measurements. The owner/operator shall summarize the gas flow rate records and heat input records to A-8 for each consecutive rolling 12-month period. (Basis: Regulations 8-34-501.10, 8-34-508, Offsets and Cumulative Increase)
4. The A-8 Flare shall either achieve 98% by weight destruction of the total non-methane organic compounds (NMOC) in the inlet gas or shall emit no more than 30 ppmv of NMOC, expressed as methane and corrected to 3% oxygen, in the exhaust gas from A-8. (Basis: Regulation 8-34-301.3 and BACT)

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5. In order to ensure compliance with Part 4 and to ensure adequate destruction of the toxic air contaminants present in the inlet gas, the owner/operator shall maintain the combustion zone temperature of the A-8 Flare at a minimum temperature of 1400 degrees F, averaged over any 3-hour period. If a source test demonstrates compliance with all applicable requirements at a different temperature, the APCO may revise this minimum temperature requirement in accordance with the procedures identified in Regulation 2-6-414 or 2-6-415 and the following criteria. The minimum combustion zone temperature for the flare shall be equal to the average combustion zone temperature determined during the most recent complying source test minus 50 degrees F, provided that the minimum combustion zone temperature is not less than 1400 degrees F. To demonstrate compliance with this part, the A-8 flare shall be equipped with a temperature monitor with readout display and continuous recorder. One or more thermocouples shall be placed in the primary combustion zone of the flare and these thermocouples shall accurately indicate the combustion zone temperature at all times. (Basis: Regulations 8-34-501.3 and 8-34-507, BACT, and TBACT)
6. Nitrogen oxide (NO_x) emissions from the A-8 flare shall not exceed 0.06 pounds of NO_x, expressed as NO₂, per million BTU of heat input. (Basis: RACT)
7. Carbon monoxide (CO) emissions from the A-8 flare shall not exceed 0.20 pounds of CO per million BTU of heat input. (Basis: RACT)
8. ~~Sulfur dioxide (SO₂) emissions from the A-8 flare shall not exceed 10.99 pounds of SO₂ per hour. Compliance with this exhaust SO₂ emission limit shall be demonstrated using one of the procedures identified in subparts a-e below. (RACT, Cumulative Increase, and Regulation 9-1-302)~~
 - ~~a. Measure the concentration of SO₂ in the exhaust gas from A-8 during the compliance demonstration test required by Part 11 and calculate the SO₂ emissions in units of pounds per hour using District approved test methods and calculation procedures; or~~
 - ba. Measure the concentration of SO₂ in the exhaust gas from A-8 during the compliance demonstration test required by Part 11 and have an outlet sulfur dioxide concentration that does not exceed 300 ppmv of SO₂ at as found oxygen on a dry basis.; or
 - ~~e. Collect a sample of each inlet gas to A-8 during the compliance demonstration test required by Part 11, analyze these samples for total reduced sulfur compounds (TRS) using a District approved laboratory analysis method that reports the sum of the measured concentrations for individual sulfur compounds as TRS, and have a TRS concentration in each inlet gas that does not exceed 2750 ppmv of TRS, expressed as hydrogen sulfide (H₂S) and corrected to~~

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~~a landfill gas methane concentration of 50% by volume.~~

9. To demonstrate compliance with Parts 3 through 8, the owner/operator shall conduct a District-approved source test at least every 12 months from the date of the last successful test with an initial source test conducted within 60 days from the issuance of the Permit to Operate.

The source test shall be conducted while the flare is burning waste gas from the carbon desorption process. If the duration of waste gas combustion is insufficient to allow a full source test during the waste gas desorption cycle, the source test shall be conducted while the flare is operating in its normal mode and cycling between desorption cycle on and off. In this case, record the flow rate of desorption gas to the flare, amount of time this gas is flowing to flare per run and the flow rate and time per run for treated landfill gas.

The Source Test Section of the District shall be contacted to obtain approval of the source test procedures at least 14 days in advance of each source test. The Source Test Section shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Source Test Section within 60 days of the test date. Each annual source test shall measure or determine the criteria in subparts a-~~ih~~ below ~~(except subpart i TACs shall be tested at least every 4 years)~~. (Basis: RACT, BACT, TBACT, and Regulations 2-5-301, 2-5-302, 8-34-301.3, 8-34-412, and 9-1-302)

- a. inlet gas flow rate for each gas delivered to the flare (scfm, dry basis);
 - b. concentrations (dry basis) of carbon dioxide (CO₂), nitrogen (N₂), oxygen (O₂), methane (CH₄), and total non-methane organic compounds (NMOC) in each inlet gas to the flare;
 - c. total inlet heat input rate to the flare in units of MM BTU (HHV) per hour;
 - d. stack gas flow rate from the flare (scfm, dry basis);
 - e. concentrations (dry basis) of CH₄, NMOC, NO_x, CO, SO₂, and O₂, in the flare stack gas;
 - f. NMOC and CH₄ destruction efficiencies achieved by the flare (by weight);
 - g. average combustion zone temperature in the flare during the test period;
 - h. NO_x, CO, and SO₂ emission rates from the flare in units of pounds per hour and pounds per MM BTU,
 - i. Benzene, Formaldehyde, Acetaldehyde, and PAH emissions from the flare in units of pounds per hour.
10. The owner/operator shall maintain the following records:
- a. Dates and times of startups and shutdowns of Source 7 and A-8 and the reason for each shutdown;
 - b. Dates and time of any maintenance activity to Source 7, the gas treatment

VI. Permit Conditions

- system and the flare, A-8, including the reason, description of the activity and any corrective actions;
- c. For Source 7 and A-8, the monthly landfill gas flow rate, corrected to standard conditions or the heat content of the landfill gas fuel burned;
- d. Any calculations needed to report the flow rate or heat content measured pursuant to Parts 1 and 2 in units of standard cubic feet or million BTU, respectively;
- e. Monthly operating time, in hours, for Source 7 and A-8;
- f. Where applicable, rolling 12-month totals of the landfill gas fuel flow rate, landfill gas fuel heat content and operating time for Source 7 and A-8; and
- g. Any compliance demonstration information (e.g. monitoring data, source tests).

The owner/operator shall keep all records onsite and available to the District staff upon request with a retention of at least 5 years from the date of entry. (Basis: Regulations 2-5-301, 2-5-302, 8-34-501.3, 8-34-501.10, BACT, RACT, Cumulative Increase and Offsets)

11. ~~—In order to demonstrate compliance with Parts 8c, f~~The owner/operator shall conduct a characterization of both the treated landfill gas from S-7 and the desorption cycle waste gas going to flare concurrent with the annual-source test required by Part 9 above. The flare inlet gas shall be analyzed for, as a minimum, the organic compounds listed below. If the owner/operator is electing to demonstrate compliance with Part 8 using the methods in Part 8c instead of Parts 8a or 8b, the permit holder shall analyze the flare inlet gas for, as a minimum, the sulfur compounds listed below, and the owner/operator does not need to conduct the SO₂ analysis or calculations in Parts 9e and 9h. All concentrations shall be reported on a dry basis. The test report shall be submitted to the Compliance and Enforcement Division and Source Test Section within 60 days of the test date. (Basis: Regulations 2-1-403 and 2-5-501)

Organic Compounds

Benzene

Formaldehyde

Acetaldehyde

PAH

Sulfur Compounds

Carbon Disulfide

Carbonyl Sulfide

Dimethyl Sulfide

Ethyl Mercaptan

Hydrogen Sulfide

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Methyl Mercaptan

Condition # 26782

FOR S-8 LFG CONDENSATE SOLVENT TANK

1. The owner/operator of S-8 shall not exceed the following throughput limits during any consecutive twelve-month period (Basis: Cumulative Increase):
LFG condensate: 5000 Gallons
2. To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including the following information:
 - a. Quantities of each type of liquid stored at this source on a monthly basis.
 - b. If a material other than those specified in Part 1 is stored, POC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a monthly basis;
 - c. Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period.

All records shall be retained on-site for two 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; ~~Toxics~~)

VII. APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS

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

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

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-1 IC ENGINE - GENSET; ABATED BY
A-7 SELECTIVE CATALYTIC REDUCTION SYSTEM AND A-1 OXIDATION CATALYST

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Periods of Inoperation for Parametric Monitors	BAAQMD 1-523.2	Y		≤ 15 consecutive days per incident and ≤ 30 calendar days per 12-month period	BAAQMD 1-523.4	P/D	Operating Records for All Parametric Monitors
TOC (Total Organic Compounds Plus Methane)	BAAQMD 8-34-301.2	Y		Component Leak Limit: ≤ 1000 ppmv as methane	BAAQMD 8-34-501.6 and 503	P/Q	Inspection of Control System Components with Portable Analyzer and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-1 IC ENGINE - GENSET; ABATED BY
A-7 SELECTIVE CATALYTIC REDUCTION SYSTEM AND A-1 OXIDATION CATALYST

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Volatile Organic Compounds (VOC)	BAAQMD Condition # 25465, Part 7	Y		≤ 0.20 grams/bhp-hour and ≤ 40 ppmv, dry basis @ 15% O ₂ , expressed as methane	BAAQMD Condition # 25465, Parts 11 and 12	P/A	Source Tests and Records
Non-Methane Organic Compounds (NMOC)	BAAQMD 8-34-301.4 and BAAQMD Condition # 25465, Part 7	Y		≥ 98% removal by weight OR < 120 ppmv, dry basis @ 3% O ₂ , expressed as methane	BAAQMD 8-34-412 and 501.4 and BAAQMD Condition # 25465, Part 11j-k	P/A	Source Tests and Records
Key Emission Control System Operating Parameter	BAAQMD 8-34-509 and BAAQMD Condition # 25465 Part 3	Y		CO concentration: < 230 ppmv CO @ 15% O ₂ , dry	BAAQMD 8-34-501.11 and 509 and BAAQMD Condition # 25465, Part 7	P/Q	Portable analyzer
Opacity	BAAQMD 6-1-301	N		No darker than: Ringelmann No. 1 for periods of more than: 3 minutes in any hour	BAAQMD 6-102	P/E	Visual Observation
Opacity	SIP 6-301	Y		No darker than: Ringelmann No. 1 for periods of more than: 3 minutes in any hour	BAAQMD 6-102	P/E	Visual Observation
Opacity	BAAQMD 6-1-302	N		No more than: 20% opacity for periods of more than: 3 minutes in any hour	BAAQMD 6-102	P/E	Visual Observation

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-1 IC ENGINE - GENSET; ABATED BY
A-7 SELECTIVE CATALYTIC REDUCTION SYSTEM AND A-1 OXIDATION CATALYST

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	SIP 6-302	Y		No more than: 20% opacity for periods of more than: 3 minutes in any hour	BAAQMD 6-102	P/E	Visual Observation
TSP	BAAQMD 6-1-310.1	N		≤ 0.15 grains/dscf	BAAQMD 6-1-501, 502, and 504	P/E	Source Testing (every 5 years) and Records
TSP	BAAQMD 6-1-310.2	N	7/1/20	≤ 0.15 grains/dscf	BAAQMD 6-1-501, 502, and 504	P/E	Source Testing (every 5 years) and Records
FP	SIP 6-310	Y		≤ 0.15 grains/dscf	BAAQMD 6-1-501, 502, and 504	P/E	Source Testing (every 5 years) and Records
SO ₂	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: ≤ 0.5 ppm for 3 minutes and ≤ 0.25 ppm for 60 min. and ≤ 0.05 ppm for 24 hours	None	N	NA
SO ₂	BAAQMD 9-1-302	Y		≤ 300 ppm (dry basis)	BAAQMD Condition # 25465 Part 11g	P/A	Source Test and Records
Total Reduced Sulfur (TRS) in Landfill Gas	BAAQMD Condition # 25465, Part 8	Y		≤ 150 ppmv, expressed as H ₂ S, corrected to 50% methane in LFG	BAAQMD Condition # 25465 Part 8	P/Q	Sulfur Analysis of Landfill Gas and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-1 IC ENGINE - GENSET; ABATED BY
A-7 SELECTIVE CATALYTIC REDUCTION SYSTEM AND A-1 OXIDATION CATALYST

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H ₂ S	BAAQMD 9-2-301	N		Property Line Ground Level Limits: ≤ 0.06 ppm, averaged over 3 minutes and ≤ 0.03 ppm, averaged over 60 minutes	None	N	NA
NO _x	BAAQMD 9-8-302.1	Y		Waste Fuel Gas, Lean-Burn ≤ 70 ppmv, dry basis @ 15% O ₂	BAAQMD 9-8-503 and BAAQMD Condition # 25465, Part 4	P/Q and P/A	Portable Analyzer, Source Tests and Records
NO _x	BAAQMD Condition # 25465, Part 4	Y		≤ 12 ppmv, dry basis @ 15% O ₂ , unless emissions ≤ 0.15 grams/bhp-hour, calculated as NO ₂	BAAQMD 9-8-503 and BAAQMD Condition # 25465, Part 4	P/Q and P/A	Portable Analyzer, Source Tests and Records
CO	BAAQMD 9-8-302.3	Y		Waste Fuel Gas: ≤ 2000 ppmv, dry basis @ 15% O ₂	BAAQMD 9-8-503 and BAAQMD Condition # 25465, Part 3	P/Q and P/A	Portable Analyzer, Source Tests and Records
CO	BAAQMD Condition # 25465, Part 3	Y		≤ 230 ppmv, dry basis @ 15% O ₂ , or ≤ 1.8 grams/bhp-hour	BAAQMD 9-8-503 and BAAQMD Condition # 25465, Part 3	P/Q and P/A	Portable Analyzer, Source Tests and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-1 IC ENGINE - GENSET; ABATED BY
A-7 SELECTIVE CATALYTIC REDUCTION SYSTEM AND A-1 OXIDATION CATALYST

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Landfill Gas Through-put	BAAQMD Condition # 25465, Part 2	Y		To Each Engine: ≤ 355 million scf Per 12-month period	BAAQMD 8-34-501.10 and 508 and BAAQMD Condition # 25465, Part 2	C	Gas Flow Meter and Recorder
Heat Input	BAAQMD Condition # 25465, Part 2	Y		To Each Engine: ≤ 180,000 MM BTU Per 12-month period	BAAQMD 8-34-501.10 and 508 and BAAQMD Condition # 25465, Part 2	C and P/D, M	Gas Flow Meter and Recorder, Methane Measurements, Calculations, and Records
Start-up and Shut-down Periods	BAAQMD Condition # 25465, Part 6	Y		For Any Engine: ≤ 1.0 hour for each start-up period and ≤ 1.0 hour for each shut-down period	BAAQMD Condition # 25465, Part 12a	P/E	Records
CO	BAAQMD Condition # 26864, Part 1	Y		Facility-Wide CO Emissions ≤ 238 tons during any consecutive rolling 4-quarter period	BAAQMD Condition # 26864, Part 2	P/Q	Calculations and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-2 IC ENGINE – GENSET ABATED BY A-2 OXIDATION CATALYST;
S-3 IC ENGINE – GENSET ABATED BY A-3 OXIDATION CATALYST;
S-4 IC ENGINE – GENSET ABATED BY A-4 OXIDATION CATALYST;
S-5 IC ENGINE – GENSET ABATED BY A-5 OXIDATION CATALYST;
S-6 IC ENGINE – GENSET ABATED BY A-6 OXIDATION CATALYST;

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Periods of Inoperation for Parametric Monitors	BAAQMD 1-523.2	Y		≤ 15 consecutive days per incident and ≤ 30 calendar days per 12-month period	BAAQMD 1-523.4	P/D	Operating Records for All Parametric Monitors
TOC (Total Organic Compounds Plus Methane)	BAAQMD 8-34-301.2	Y		Component Leak Limit: ≤ 1000 ppmv as methane	BAAQMD 8-34-501.6 and 503	P/Q	Inspection of Control System Components with Portable Analyzer and Records
Volatile Organic Compounds (VOC)	BAAQMD Condition # 25465, Part 7	Y		≤ 0.20 grams/bhp-hour and ≤ 40 ppmv, dry basis @ 15% O ₂ , expressed as methane	BAAQMD Condition # 25465, Part 11	P/A	Source Tests and Records
Non-Methane Organic Compounds (NMOC)	BAAQMD 8-34-301.4 and BAAQMD Condition # 25465, Part 7	Y		≥ 98% removal by weight OR < 120 ppmv, dry basis @ 3% O ₂ , expressed as methane	BAAQMD 8-34-412 and 501.4 and BAAQMD Condition # 25465, Part 11j-k	P/A	Source Tests and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-2 IC ENGINE – GENSET ABATED BY A-2 OXIDATION CATALYST;
S-3 IC ENGINE – GENSET ABATED BY A-3 OXIDATION CATALYST;
S-4 IC ENGINE – GENSET ABATED BY A-4 OXIDATION CATALYST;
S-5 IC ENGINE – GENSET ABATED BY A-5 OXIDATION CATALYST;
S-6 IC ENGINE – GENSET ABATED BY A-6 OXIDATION CATALYST;

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Key Emission Control System Operating Parameter	BAAQMD 8-34-509 and BAAQMD Condition # 25465 Part 3	Y		CO concentration: < 230 ppmv CO @ 15% O2, dry	BAAQMD 8-34-501.11 and 509 and BAAQMD Condition # 25465, Part 7	P/Q	Portable analyzer
Opacity	BAAQMD 6-1-301	N		No darker than: Ringelmann No. 1 for periods of more than: 3 minutes in any hour	BAAQMD 6-102	P/E	Visual Observation
Opacity	SIP 6-301	Y		No darker than: Ringelmann No. 1 for periods of more than: 3 minutes in any hour	BAAQMD 6-102	P/E	Visual Observation
Opacity	BAAQMD 6-1-302	N		No more than: 20% opacity for periods of more than: 3 minutes in any hour	BAAQMD 6-102	P/E	Visual Observation
Opacity	SIP 6-302	Y		No more than: 20% opacity for periods of more than: 3 minutes in any hour	BAAQMD 6-102	P/E	Visual Observation
TSP	BAAQMD 6-1-310.1	N		≤ 0.15 grains/dscf	BAAQMD 6-1-501, 502, and 504	P/E	Source Testing (every 5 years) and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-2 IC ENGINE – GENSET ABATED BY A-2 OXIDATION CATALYST;
S-3 IC ENGINE – GENSET ABATED BY A-3 OXIDATION CATALYST;
S-4 IC ENGINE – GENSET ABATED BY A-4 OXIDATION CATALYST;
S-5 IC ENGINE – GENSET ABATED BY A-5 OXIDATION CATALYST;
S-6 IC ENGINE – GENSET ABATED BY A-6 OXIDATION CATALYST;

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-1-310.2	N	7/1/20	≤ 0.15 grains/dscf	BAAQMD 6-1-501, 502, and 504	P/E	Source Testing (every 5 years) and Records
FP	SIP 6-310	Y		≤ 0.15 grains/dscf	BAAQMD 6-1-501, 502, and 504	P/E	Source Testing (every 5 years) and Records
SO ₂	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: ≤ 0.5 ppm for 3 minutes and ≤ 0.25 ppm for 60 min. and ≤ 0.05 ppm for 24 hours	None	N	NA
SO ₂	BAAQMD 9-1-302	Y		≤ 300 ppm (dry basis)	BAAQMD Condition # 25465 Part 11g	P/A	Source Test and Records
Total Reduced Sulfur (TRS) in Landfill Gas	BAAQMD Condition # 25465, Part 8	Y		≤ 150 ppmv, expressed as H ₂ S, corrected to 50% methane in LFG	BAAQMD Condition # 25465 Part 8	P/Q	Sulfur Analysis of Landfill Gas and Records
H ₂ S	BAAQMD 9-2-301	N		Property Line Ground Level Limits: ≤ 0.06 ppm, averaged over 3 minutes and ≤ 0.03 ppm, averaged over 60 minutes	None	N	NA

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-2 IC ENGINE – GENSET ABATED BY A-2 OXIDATION CATALYST;
S-3 IC ENGINE – GENSET ABATED BY A-3 OXIDATION CATALYST;
S-4 IC ENGINE – GENSET ABATED BY A-4 OXIDATION CATALYST;
S-5 IC ENGINE – GENSET ABATED BY A-5 OXIDATION CATALYST;
S-6 IC ENGINE – GENSET ABATED BY A-6 OXIDATION CATALYST;

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO _x	BAAQMD 9-8-302.1	Y		Waste Fuel Gas, Lean-Burn ≤ 70 ppmv, dry basis @ 15% O ₂	BAAQMD 9-8-503 and BAAQMD Condition # 25465, Part 5	P/Q and P/A	Portable Analyzer, Source Tests and Records
NO _x	BAAQMD Condition # 25465, Part 5	Y		≤ 44 ppmv, dry basis @ 15% O ₂ , or ≤ 0.6 grams/bhp-hour, calculated as NO ₂	BAAQMD 9-8-503 and BAAQMD Condition # 25465, Part 5	P/Q and P/A	Portable Analyzer, Source Tests and Records
CO	BAAQMD 9-8-302.3	Y		Waste Fuel Gas: ≤ 2000 ppmv, dry basis @ 15% O ₂	BAAQMD 9-8-503 and BAAQMD Condition # 25465, Part 3	P/Q and P/A	Portable Analyzer, Source Tests and Records
CO	BAAQMD Condition # 25465, Part 3	Y		≤ 230 ppmv, dry basis @ 15% O ₂ , or ≤ 1.8 grams/bhp-hour	BAAQMD 9-8-503 and BAAQMD Condition # 25465, Part 3	P/Q and P/A	Portable Analyzer, Source Tests and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-2 IC ENGINE – GENSET ABATED BY A-2 OXIDATION CATALYST;
S-3 IC ENGINE – GENSET ABATED BY A-3 OXIDATION CATALYST;
S-4 IC ENGINE – GENSET ABATED BY A-4 OXIDATION CATALYST;
S-5 IC ENGINE – GENSET ABATED BY A-5 OXIDATION CATALYST;
S-6 IC ENGINE – GENSET ABATED BY A-6 OXIDATION CATALYST;

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Landfill Gas Through-put	BAAQMD Condition # 25465, Part 2	Y		To Each Engine: ≤ 355 million scf Per 12-month period	BAAQMD 8-34-501.10 and 508 and BAAQMD Condition # 25465, Part 2	C	Gas Flow Meter and Recorder
Heat Input	BAAQMD Condition # 25465, Part 2	Y		To Each Engine: ≤ 180,000 MM BTU Per 12-month period	BAAQMD 8-34-501.10 and 508 and BAAQMD Condition # 25465, Part 2	C and P/D, M	Gas Flow Meter and Recorder, Methane Measurements, Calculations, and Records
Start-up and Shut-down Periods	BAAQMD Condition # 25465, Part 6	Y		For Any Engine: ≤ 1.0 hour for each start-up period and ≤ 1.0 hour for each shut-down period	BAAQMD Condition # 25465, Part 12a	P/E	Records
CO	BAAQMD Condition # 26864, Part 1	Y		Facility-Wide CO Emissions ≤ 238 tons during any consecutive rolling 4-quarter period	BAAQMD Condition # 26864, Part 2	P/M	Calculations and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-7 TEMPERATURE SWING ADSORPTION GAS CLEANING SYSTEM
A-8 WASTE GAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Periods of Inoperation for Parametric Monitors	BAAQMD 1-523.2	Y		≤ 15 consecutive days per incident and ≤ 30 calendar days per 12 month period	BAAQMD 1-523.4	P/D	Operating Records for All Parametric Monitors
TOC (Total Organic Compounds Plus Methane)	BAAQMD 8-34-301.2	Y		Component Leak Limit: ≤ 1000 ppmv as methane	BAAQMD 8-34-501.6 and 503	P/Q	Inspection of Components Containing LFG with Portable Analyzer and Records
Non-Methane Organic Compounds (NMOC)	BAAQMD 8-34-301.3 and BAAQMD Condition # 26865, Part 4	Y		For A-8 Flare: ≥ 98% removal by weight OR < 30 ppmv, dry basis @ 3% O ₂ , expressed as methane	BAAQMD 8-34-412 and 8-34-501.4 and BAAQMD Condition # 26865 Parts 9e-f	P/A	Source Tests and Records
Temperature of Combustion Zone (CT)	BAAQMD Condition # 26865, Part 5	Y		For A-8 Flare: CT ≥ 1400 °F, averaged over any 3-hour period	BAAQMD 8-34-501.3 and 507 and BAAQMD Condition # 26865, Part 5	C	Temperature Sensor and Recorder

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-7 TEMPERATURE SWING ADSORPTION GAS CLEANING SYSTEM
A-8 WASTE GAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		For A-8 Flare: No Darker Than: Ringelmann No. 1 for periods of more than: 3 minutes in any hour	BAAQMD 6-102	P/E	Visual Observation
Opacity	SIP 6-301	Y		For A-8 Flare: No darker than: Ringelmann No. 1 for periods of more than: 3 minutes in any hour	BAAQMD 6-102	P/E	Visual Observation
Opacity	BAAQMD 6-1-302	N		For A-8 Flare: No more than: 20% opacity for periods of more than: 3 minutes in any hour	BAAQMD 6-102	P/E	Visual Observation
Opacity	SIP 6-302	Y		For A-8 Flare: No more than: 20% opacity for periods of more than: 3 minutes in any hour	BAAQMD 6-102	P/E	Visual Observation
TSP	BAAQMD 6-1-310.1	N		For A-8 Flare: ≤ 0.15 grains/dscf	None	N	N/A
FP	BAAQMD 6-310	Y		For A-8 Flare: ≤ 0.15 grains/dscf	None	N	N/A
SO ₂	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: ≤ 0.5 ppm for 3 minutes and ≤ 0.25 ppm for 60 min. and ≤ 0.05 ppm for 24 hours	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-7 TEMPERATURE SWING ADSORPTION GAS CLEANING SYSTEM
A-8 WASTE GAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO ₂	BAAQMD Regulation 9-1-302	Y		For A-8 Flare: ≤ 300 ppm (dry basis)	BAAQMD Condition # 26865, Part 9e	P/A	Flare Source Test and Records; or Sulfur Analysis of Landfill Gas and Records
H ₂ S	BAAQMD 9-2-301	N		Property Line Ground Level Limits: ≤ 0.06 ppm, averaged over 3 minutes and ≤ 0.03 ppm, averaged over 60 minutes	None	N	N/A
Landfill Gas Through-put	BAAQMD Condition # 26865, Part 1	Y		For S-7 TSA Gas Cleaning System: ≤ 2130 million scf per 12-month period	BAAQMD Condition # 25465, Part 2	P/C, M	Gas Flow Meter and Records
Landfill Gas Through-put	BAAQMD Condition # 26865, Part 3	Y		For A-8 Flare: ≤ 158 million scf per 12-month period	BAAQMD Condition # 26865, Part 3	P/C, M	Gas Flow Meter and Records
Heat Input	BAAQMD Condition # 26865, Part 3	Y		For A-8 Flare: ≤ 79,000 MM BTU per 12-month period	BAAQMD Condition # 26865, Part 3	P/C, M	Gas Flow Meter, Methane Measurements, Calculations, and Records
NO _x	BAAQMD Condition # 26865, Part 6	Y		For A-8 Flare: ≤ 15 ppmv, dry basis @ 15% O ₂ Or ≤ 0.06 pounds/MM BTU, calculated as NO ₂	BAAQMD Condition # 26865, Part 9e,h	P/A	Flare Source Tests and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-7 TEMPERATURE SWING ADSORPTION GAS CLEANING SYSTEM
A-8 WASTE GAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Condition # 26865, Part 7	Y		For A-8 Flare: ≤ 81 ppmv, dry basis @ 15% O ₂ Or ≤ 0.20 pounds/MM BTU	BAAQMD Condition # 26865, Part 9e,h	P/A	Flare Source Tests and Records
CO	BAAQMD Condition # 26864, Part 1	Y		Facility-Wide CO Emissions ≤ 238 tons during any consecutive rolling 4-quarter period	BAAQMD Condition # 26864, Part 2	P/M	Calculations and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D
Applicable Limits and Compliance Monitoring Requirements
S-8 LFG CONDENSATE SOLVENT TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put Limit	BAAQMD Condition # 26782, Part 1	Y		≤ 5000 gallons of LFG Condensate, during any 12-month period	BAAQMD Condition # 26782, Part 2c	P/M	Records

VIII. TEST METHODS

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

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 6-1-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions; or US EPA Reference Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources
SIP 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions; or US EPA Reference Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources
BAAQMD 6-1-302	Opacity Limit	Manual of Procedures, Volume I, Evaluation of Visible Emissions; or US EPA Reference Methods 9, 203A, 203B, or 203C, Visual Determination of the Opacity of Emissions from Stationary Sources
SIP 6-302	Opacity Limit	Manual of Procedures, Volume I, Evaluation of Visible Emissions; or US EPA Reference Methods 9, 203A, 203B, or 203C, Visual Determination of the Opacity of Emissions from Stationary Sources
BAAQMD 6-1-310.1 and 6-1-310.2	TSP Concentration Limits	US EPA Reference Method 5, Determination of Particulate Matter Emissions from Stationary Sources
SIP 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate; or For combustion equipment: US EPA Reference Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD 8-34-301.2	Collection and Control System Leak Limitations	US EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
BAAQMD 8-34-301.3	Limits for Flares	Manual of Procedures, Volume IV, ST-7, Organic Compounds and ST-14, Oxygen continuous Sampling; or US EPA Reference Methods 18, 25, 25A, or 25C and Methods 3, 3A, or 3B

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 8-34-301.4	Limits for Other Emission Control Systems	Manual of Procedures, Volume IV, ST-7, Organic Compounds and ST-14, Oxygen continuous Sampling; or US EPA Reference Methods 18, 25, 25A, or 25C and Methods 3, 3A, or 3B
BAAQMD 8-34-412	Compliance Demonstration Test	Manual of Procedures, Volume IV, ST-7, Organic Compounds and ST-14, Oxygen, Continuous Sampling, ST-17, Stack Gas Velocity and Volumetric Flow Rate, ST-18, Stack Traverse Point Determination; ST-23, Water Vapor; or US EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography, Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or Method 25C, Determination of Nonmethane Organic Compounds (NMOC) in MSW Landfill Gases; and EPA Reference Method 3, Gas Analysis for the Determination of Dry Molecular Weight, Method 3A, Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources (Instrumental Analyzer Procedure), or Method 3B, Gas Analysis for the Determination of Emission Rate Correction Factor or Excess Air
BAAQMD 9-1-301	Limitations on Ground Level Concentrations (SO ₂)	Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide
BAAQMD 9-1-302	General Emission Limitation (SO ₂)	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling
BAAQMD 9-2-301	Limitations on Hydrogen Sulfide	Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide
BAAQMD 9-8-302.1	NO _x Emission Limit for Engines	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-8-302.3	CO Emission Limit for Engines	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition # 25465, Part 2	Fuel Gas Throughput Limits for Engines	APCO approved gas flow meter;

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Condition # 25465, Part 2	Heat Input Limits for Engines	APCO approved gas flow meter; EPA Reference Method 3C; and APCO approved calculation procedure described in BAAQMD Condition # 25465, Part 2
BAAQMD Condition # 25465, Part 3	CO Emission Limit for Engines	Manual of Procedures, Volume IV, ST-6 and ST-14; or US EPA Reference Method 10 and Method 3A
BAAQMD Condition # 25465, Parts 4 and 5	NO _x Emission Limits for Engines	Manual of Procedures, Volume IV, ST-13A and ST-14; or US EPA Reference Method 7E and Method 3A
BAAQMD Condition # 25465, Part 7	NMOC Emission Limits for Engines	Manual of Procedures, Volume IV, ST-7 and ST-14; or US EPA Reference Methods 18, 25, 25A, or 25C and Method 3A
BAAQMD Condition # 25465, Part 8	SO ₂ Emission Limit for Engines	Emission Calculation Procedures Described in Condition # 25465, Part 7b-e
BAAQMD Condition # 25465, Parts 8	Sulfur Content Limits for Treated Landfill Gas	Manual of Procedures, Volume III, Method 5 Determination of Total Mercaptans in Effluents and Method 25 Determination of Hydrogen Sulfide in Effluents, or Method 44 Determination of Reduced Sulfur Gases and Sulfur Dioxide in Effluent Samples by Gas Chromatographic Methods
BAAQMD Condition # 25465, Part 11	Compliance Demonstration Test for Engines	Manual of Procedures, Volume IV, ST-6, ST-7, ST-13A, ST-14, ST-17, ST-18, and 19A; or EPA Reference Method 1; Method 3, 3A, or 3B; Method 2 or 19; Method 4; Method 7E; Method 10; Method 18 or 25A; Calculation Procedures in 40 CFR 60.4244; and CARB TM 430

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Condition # 25465, Part 111	Benzene, Formaldehyde, Acetaldehyde, and PAH Emissions From Engines	CARB Test Method 430, Determination of Formaldehyde and Acetaldehyde in Emissions from Stationary Sources; CARB Test Method 429, Determination of Polycyclic Aromatic Hydrocarbon (PAH) Emissions from Stationary Sources; US EPA Reference Method 30 Determination of Volatile Principle Organic Hazardous Constituents (POHCs) from the Stack Gas Effluents of Hazardous Waste Incinerators; US EPA Reference Method 40, Sampling of Principal Organic Hazardous Constituents from Combustion Sources Using Tedlar® Bags.
BAAQMD Condition # 26864, Part 1	Facility-Wide CO Emission Limit	Air District Approved Emission Calculation Procedures per BAAQMD Condition # 26864, Part 2
BAAQMD Condition # 26865, Part 1	Landfill Gas Throughput to S-7	APCO approved gas flow meter;
BAAQMD Condition # 26865, Part 3	Landfill Gas Throughput to A-8	APCO approved gas flow meter;
BAAQMD Condition # 26865, Part 3	Heat Input Limit for Flare	APCO approved gas flow meter; EPA Reference Method 3C; and APCO approved calculation procedure described in BAAQMD Condition # 26865, Part 3
BAAQMD Condition # 26865, Part 4	NMOC Emission Limit for Flare	Manual of Procedures, Volume IV, ST-7 and ST-14; or US EPA Reference Methods 18, 25, 25A, or 25C and Methods 3, 3A, or 3B
BAAQMD Condition # 26865, Part 5	Combustion Zone Temperature Limit for Flare	APCO Approved Device
BAAQMD Condition # 26865, Part 6	NO _x Emission Limit for Flare	Manual of Procedures, Volume IV, ST-13A and ST-14; or US EPA Reference Method 20 and Methods 3, 3A, or 3B

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Condition # 26865, Part 7	CO Emission Limit for Flare	Manual of Procedures, Volume IV, ST-6 and ST-14; or US EPA Reference Method 10 and Methods 3, 3A, or 3B
BAAQMD Condition # 26865, Part 8a	SO ₂ Emission Limit for Flare	Manual of Procedures, Volume IV, ST-19A and ST-14; or US EPA Reference Methods 6 or 6C and Methods 3, 3A, or 3B
BAAQMD Condition 26865, Part 9i	Benzene, Formaldehyde, Acetaldehyde, and PAH Emissions from Flare	CARB Test Method 430, Determination of Formaldehyde and Acetaldehyde in Emissions from Stationary Sources; CARB Test Method 429, Determination of Polycyclic Aromatic Hydrocarbon (PAH) Emissions from Stationary Sources; US EPA Reference Method 30 Determination of Volatile Principle Organic Hazardous Constituents (POHCs) from the Stack Gas Effluents of Hazardous Waste Incinerators; US EPA Reference Method 40, Sampling of Principal Organic Hazardous Constituents from Combustion Sources Using Tedlar® Bags.
BAAQMD Condition # 26865, Part 10	Compliance Demonstration Test for Flare	Manual of Procedures, Volume IV, ST-6, ST-7, ST-13A, ST-14, ST-17, ST-18, and 19A; or US EPA Reference Method 1; Method 3, 3A, or 3B; Method 2 or 19; Method 4; Methods 6 or 6C; Method 10; Method 18 or 25A; and Method 20; Calculation Procedures in 40 CFR 60.4244; and CARB TM 430
BAAQMD Condition # 26865, Part 11	Landfill Gas Analysis Procedures	Analysis of Landfill Gas Samples by Gas Chromatography for Compounds Identified in Condition # 26865, Part 11; or EPA Reference Method 18

IX. PERMIT SHIELD

Not Applicable

X. REVISION HISTORY

Initial Title V Permit Issuance (Application # 21226): **[insert approval date]**

XI. GLOSSARY

ACT

Federal Clean Air Act

AP-42

An EPA Document “Compilation of Air Pollution Emission Factors” that is used to estimate emissions from numerous source types. It is available electronically from EPA’s web site at: <http://www.epa.gov/ttn/chief/ap42/index.html>

APCO

Air Pollution Control Officer: Head of Bay Area Air Quality Management District

API

American Petroleum Institute

ARB

Air Resources Board

ASTM

American Society for Testing and Materials

ATC

Authority to Construct

ATCM

Airborne Toxic Control Measure

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

BARCT

Best Available Retrofit Control Technology

Basis

The underlying authority that allows the District to impose requirements.

C1

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

C3

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

XI. Glossary

C5

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

C6

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

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CAM

Compliance Assurance Monitoring per 40 CFR Part 64

CAPCOA

California Air Pollution Control Officers Association

CARB

California Air Resources Board (same as ARB)

CCR

California Code of Regulations

CEC

California Energy Commission

CEM

A “continuous emissions monitor” is a monitoring device that provides a continuous direct measurement of some pollutant (e.g. NO_x concentration) in an exhaust stream.

CEQA

California Environmental Quality Act

CFR

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

CH₄ or CH₄

Methane

CI

Compression Ignition

XI. Glossary

CIWMB

California Integrated Waste Management Board

CO

Carbon Monoxide

CO₂ or CO₂

Carbon Dioxide

CO₂e

Carbon Dioxide Equivalent. A carbon dioxide equivalent emission rate is the emission rate of a greenhouse gas compound that has been adjusted by multiplying the mass emission rate by the global warming potential of the greenhouse gas compound. These adjusted emission rates for individual compounds are typically summed together, and the total is also referred to as the carbon dioxide equivalent (CO₂e) emission rate.

CT

Combustion Zone Temperature

Cumulative Increase

The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

District

The Bay Area Air Quality Management District

E6, E9, E12

Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example, 4.53 E6 equals $(4.53) \times (10^6) = (4.53) \times (10 \times 10 \times 10 \times 10 \times 10 \times 10) = 4,530,000$. Scientific notation is used to express large or small numbers without writing out long strings of zeros.

EG

Emission Guidelines

EO

Executive Order

EPA

The federal Environmental Protection Agency.

ETP

Effluent Treatment Plant

XI. Glossary

Excluded

Not subject to any District regulations.

Federally Enforceable, FE

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

FP

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

FR

Federal Register

GDF

Gasoline Dispensing Facility

GHG

Greenhouse Gas

GLM

Ground Level Monitor

grains

1/7000 of a pound

GWP

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

H₂S or H₂S

Hydrogen Sulfide

H₂SO₄ or H₂SO₄

Sulfuric Acid

H&SC

Health and Safety Code

HAP

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

XI. Glossary

Hg

Mercury

HHV

Higher Heating Value. The quantity of heat evolved as determined by a calorimeter where the combustion products are cooled to 60 °F and all water vapor is condensed to liquid.

IC

Internal Combustion

LEA

Local Enforcement Agency

LFG

Landfill gas

LHV

Lower Heating Value. Similar to the higher heating value (see HHV) except that the water produced by the combustion is not condensed but retained as vapor at 60 °F.

Long ton

2200 pounds

Major Facility

A facility with potential emissions of: (1) at least 100 tons per year of regulated air pollutants, (2) at least 10 tons per year of any single hazardous air pollutant, and/or (3) at least 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity of hazardous air pollutants as determined by the EPA administrator.

MAX or Max.

Maximum

MFR

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

MIN or Min.

Minimum

MOP

The District's Manual of Procedures.

MSDS

Material Safety Data Sheet

XI. Glossary

MSW

Municipal solid waste

MTBE

methyl tertiary-butyl ether

MW

Molecular weight

N2 or N₂

Nitrogen

NA

Not Applicable

NAAQS

National Ambient Air Quality Standards

NESHAPS

National Emission Standards for Hazardous Air Pollutants. See in 40 CFR Parts 61 and 63.

NMHC

Non-methane Hydrocarbons (Same as NMOC)

NMOC

Non-methane Organic Compounds (Same as NMHC)

NO₂ or NO₂

Nitrogen Dioxide

NO_x or 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 Federal Clean Air Act, and implemented by 40 CFR Part 60 and District Regulation 10.

NSR

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of pollutants for which criteria have been established in accordance with Section 108 of the Federal Clean Air Act. Mandated by Title I of the Federal Clean Air Act and implemented by 40 CFR Parts 51 and 52 and District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

XI. Glossary

O₂ or O₂

Oxygen

Offset Requirement

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

PERP

Portable Equipment Registration Program

Phase II Acid Rain Facility

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

POC

Precursor Organic Compounds

PM

Particulate Matter

PM₁₀ or PM₁₀

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

PM_{2.5} or PM_{2.5}

Particulate matter with aerodynamic equivalent diameter of less than or equal to 2.5 microns

PSD

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

PTE

Potential to Emit as defined in BAAQMD Regulation 2-6-218

PTO

Permit to Operate

PV or P/V Valve

Pressure/Vacuum Valve

Regulated Organic Liquid

"Regulated organic liquids" are those liquids which require permits, or which are subject to some regulation, when processed at a liquid-handling operation. For example, for refinery marine terminals, regulated organic liquids are defined as "organic liquids" in Regulation 8, Rule 44.

XI. Glossary

RICE

Reciprocating Internal Combustion Engine

RMP

Risk Management Plan

RWQCB

Regional Water Quality Control Board

S

Sulfur

SCR

A “selective catalytic reduction” unit is an abatement device that reduces NO_x concentrations in the exhaust stream of a combustion device. SCRs utilize a catalyst, which operates within a specific temperature range, and injected ammonia to promote the conversion of NO_x compounds to nitrogen gas.

Short ton

2000 pounds

SIP

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

SO₂ or SO₂

Sulfur dioxide

SO₃ or SO₃

Sulfur trioxide

SSM

Startup, Shutdown, or Malfunction

SSM Plan

A plan, which states the procedures that will be followed during a startup, shutdown, or malfunction, that is prepared in accordance with the general NESHAP provisions (40 CFR Part 63, Subpart A) and maintained on site at the facility.

TAC

Toxic Air Contaminant (as identified by CARB)

TBACT

Best Available Control Technology for Toxics

XI. Glossary

THC

Total Hydrocarbons includes all NMHC plus methane (same as TOC).

therm

100,000 British Thermal Units

Title V

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

TOC

Total Organic Compounds includes all NMOC plus methane (same as THC).

TPH

Total Petroleum Hydrocarbons

TRMP

Toxic Risk Management Policy was the BAAQMD's first new source review program for toxic air contaminants that was replaced by BAAQMD Regulation 2, Rule 5 when it was codified in 2005.

TRS

Total Reduced Sulfur, which is a measure of the amount of sulfur-containing compounds in a gas stream, typically a fuel gas stream, including, but not limited to, hydrogen sulfide. The TRS content of a fuel gas determines the concentration of SO₂ that will be present in the combusted fuel gas, since sulfur compounds are converted to SO₂ by the combustion process.

TSP

Total Suspended Particulate

TVP

True Vapor Pressure

VMT

Vehicle Miles Traveled

VOC

Volatile Organic Compounds

Symbols:

<	=	less than
>	=	greater than
≤	=	less than or equal to
≥	=	greater than or equal to

XI. Glossary

Units of Measure:

atm	=	atmospheres
bbl	=	barrel of liquid (42 gallons)
bhp	=	brake-horsepower
btu	=	British Thermal Unit
BTU	=	British Thermal Unit
°C	=	degrees Centigrade
cfm	=	cubic feet per minute
dscf	=	dry standard cubic feet
°F	=	degrees Fahrenheit
ft ³	=	cubic feet
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
gr	=	grains
hp	=	horsepower
hr	=	hour
in	=	inches
kW	=	kilowatts
lb	=	pound
lbmol	=	pound-mole
m ²	=	square meter
m ³	=	cubic meters
Mg	=	mega grams
min	=	minute
mm	=	millimeter
MM	=	million
MM BTU	=	million BTU
M cf	=	one thousand cubic feet
MM cf	=	one million cubic feet
MW	=	megawatts
ppb	=	parts per billion
ppbv	=	parts per billion, by volume
ppm	=	parts per 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
scf	=	standard cubic feet
scfm	=	standard cubic feet per minute
sdcf	=	standard dry cubic feet
sdcfm	=	standard dry cubic feet per minute
yd	=	yard
yd ³	=	cubic yards
yr	=	year