

Brevard County Board of County Commissioners  
Brevard County Central Disposal Facility  
Facility ID No. 0090069  
Brevard County

**Title V Air Operation Permit Renewal**

Permit No. 0090069-011-AV  
(Renewal of Title V Air Operation Permit No. 0090069-005-AV)



**Permitting Authority:**

State of Florida  
Department of Environmental Protection  
Air Resource Management, Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767  
Telephone: (407) 897-2930  
Fax: (850) 412-0455

**Compliance Authority:**

State of Florida  
Department of Environmental Protection  
Air Resource Management, Central District  
3319 Maguire Boulevard, Suite 232  
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# Title V Air Operation Permit Renewal

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## ***DRAFT/PROPOSED PERMIT***

**PERMITTEE:**

Brevard County Board of County Commissioners  
Solid Waste Management Department  
2725 Judge Fran Jamieson Way, Building A, Suite 118  
Viera, Florida 32940

Permit No. 0090069-011-AV  
Brevard County Central Disposal Facility  
Facility ID No. 0090069  
Title V Air Operation Permit Renewal

The purpose of this permit is to renew the Title V air operation permit for the above referenced facility. The Brevard County Central Disposal Facility is located in Brevard County at 2250 Adamson Road, Cocoa, Florida. UTM Coordinates are: Zone 17, 517.51 East and 3140.89 North. Latitude is: 28°23'39.2718" North; and, Longitude is: 80°49'16.6561" West.

The Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

Effective Date: TBD

Renewal Application Due Date: TBD

Expiration Date: TBD

*(Draft/Proposed)*

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Caroline D. Shine  
Air Program Administrator

CDS/jr/ng

## SECTION I. FACILITY INFORMATION.

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### Subsection A. Facility Description.

This facility consists of a municipal solid waste landfill that has been in operation since 1972. The Central Disposal Facility serves the entire County's Class I disposal needs as well as the Class III disposal needs of the northern and central parts of the County. The site has a total area of 674 acres with the footprint of the landfill covering approximately 180 acres. An additional 482-acre area provides for the related solid waste management activities and buffers. The landfill is underlain by a naturally occurring clay layer that together with man-made clay slurry walls form a bowl in which the landfill sits. The landfill has an active gas collection system installed in the side slopes of the closed lower lift. The collection system has been in operation since 1994. The electrical generation system contains six (6) electrical generators that are individually powered by six (6) Caterpillar, Model G3520C, landfill gas-fired, spark ignition, reciprocating internal combustion engines. The generation bypass system includes a flaring station that consists of three (3) blowers and three (3) candlestick flares.

### Subsection B. Summary of Emissions Units.

EU No.	Brief Description
<i>Regulated Emissions Units</i>	
003	Municipal Solid Waste Landfill with Three (3) Candlestick Flares
004	Internal Combustion Engine No. 1
005	Internal Combustion Engine No. 2
006	Internal Combustion Engine No. 3
007	Internal Combustion Engine No. 4
008	Internal Combustion Engine No. 5
009	Internal Combustion Engine No. 6

### Subsection C. Applicable Regulations.

Based on the Title V air operation permit renewal application received November 21, 2011, this facility **is not** a major source of hazardous air pollutants (HAP).

This facility is regulated under: NSPS - 40 CFR 60, Subpart A, General Provisions, 40 CFR 60 Subpart WWW, Standards of Performance for Municipal Solid Waste Landfills; NESHAP - 40 CFR Part 63, Subpart A, General Provisions, and 40 CFR Part 63, Subpart AAAA, National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills adopted and incorporated by reference in Rule 62-204.800, F.A.C.

Because this facility operates stationary reciprocating internal combustion engines, it is subject to regulation under 40 CFR 63, Subpart ZZZZ, - National Emissions Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines.

Compliance with 40 CFR Part 63, Subpart ZZZZ emission limitations and operating limitations must occur no later than **October 19, 2013**.

The existing facility is a PSD major source of air pollutants in accordance with Rule 62-212.400, F.A.C.

**SECTION I. FACILITY INFORMATION.**

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A summary of applicable regulations is shown in the following table.

<b>Regulation</b>	<b>EU Nos.</b>
40 CFR 60, Subpart A, NSPS General Provisions	-003, -004, -005 -006, -007, -008 -009
40 CFR 60, Subpart WWW, NSPS Municipal Solid Waste Landfills	-003, -004, -005 -006, -007, -008 -009
40 CFR 63, Subpart A, NESHAP General Provisions	-003, -004, -005 -006, -007, -008 -009
40 CFR 63, Subpart AAAA, NESHAP Municipal Solid Waste Facilities	-003, -004, -005 -006, -007, -008 -009
40 CFR 63, Subpart ZZZZ, NESHAP Reciprocating Internal Combustion Engines	-004, -005, -006, -007, -008 -009
State Rule Citations: 62-4.070, 62-204.800, 62-210.200, 62-212.400, 62-296.320, 62-297.310, BACT, F.A.C.	-003, -004, -005 -006, -007, -008 -009

## SECTION II. FACILITY-WIDE CONDITIONS.

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The following conditions apply facility-wide to all emission units and activities:

**FW1. Appendices.** The permittee shall comply with all documents identified in Section IV, Appendices, listed in the Table of Contents. Each document is an enforceable part of this permit unless otherwise indicated. [Rule 62-213.440, F.A.C.]

### **Emissions and Controls**

**FW2. Not federally Enforceable. Objectionable Odor Prohibited.** No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rule 62-296.320(2) and 62-210.200(Definitions), F.A.C.]

**FW3. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions.** The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed-necessary and ordered by the Department. To comply, procedures to minimize pollutant emissions shall include the following:

- Tightly cover or close all VOC containers when they are not in use;
- Tightly cover, where possible, all open troughs, basins, baths, tanks, etc.;
- Maintain all piping, valves, fittings, etc. in good operating condition;
- Prevent excessive air turbulence across exposed VOC; and
- Immediately confine and clean up spills of VOC containing materials.

[Rule 62-296.320(1), F.A.C.]

**FW4. General Visible Emissions.** No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b)1, F.A.C.]

**FW5. Unconfined Particulate Matter.** No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction; alteration; demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

- Application of asphalt, water, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities;
- Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent re-entrainment, and from buildings or work areas to prevent particulate from becoming airborne;
- Landscaping or planting of vegetation; and
- Other techniques, as necessary.

[Rule 62-296.320(4)(c)2., F.A.C.]

## SECTION II. FACILITY-WIDE CONDITIONS.

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### **Annual Reports and Fees**

See Appendix RR, Facility-wide Reporting Requirements for additional details.

**FW6. Annual Operating Report.** The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by April 1<sup>st</sup> of each year. [Rule 62-210.370(3), F.A.C.]

**FW7. Annual Emissions Fee Form and Fee.** The annual Title V emissions fees are due (postmarked) by March 1<sup>st</sup> of each year. The completed form and calculated fee shall be submitted to: Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070. The forms are available for download by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: <http://www.dep.state.fl.us/air/emission/tvfee.htm>. [Rule 62-213.205, F.A.C.]

**FW8. Annual Statement of Compliance.** The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit within 60 days after the end of each calendar year during which the Title V permit was effective. [Rules 62-213.440(3)(a)2. & 3. and (3)(b), F.A.C.]

**FW9. Prevention of Accidental Releases (Section 112(r) of CAA).** If and when the facility becomes subject to 112(r), the permittee shall:

- a. Submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.
- b. Submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.

[40 CFR 68]

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection A. Emissions Unit 003**

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
-003	This emissions unit consists of slurry-walled municipal solid waste facility (landfill) with an active gas collection system. The collection system terminates in a flaring station consisting of three (3) blowers and three (3) candlestick flare destruction devices.

**Essential Potential to Emit (PTE) Parameters**

- A.1. Hours of Operation. This emissions unit may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C.]
- A.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

**Emission Limitations and Standards**

- A.3. Visible Emissions. The flare control system shall be designed for and operated with no visible emissions except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours. [Rule 40 CFR 60.18(c)(1)]

**Monitoring of Operations**

- A.4. Thermocouple. The flare control system shall be operated with a flame present at all times, as determined by a thermocouple or any other equivalent device to detect the presence of a flame. [40 CFR 60.18(c)(2)]

**Test Methods and Procedures**

*{Permitting Note: The attached Table 3, Summary of Compliance Requirements for Municipal Solid Waste Landfills, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}*

- A.5. Test Methods. Required tests shall be performed in accordance with the following reference methods:

EPA Method	Description of Method and Comments
22	Visual Determination of Fugitive Emissions from Material Sources and Smoke Emissions from Flares. <b>Each flare must be tested for visible emissions in accordance with EPA Method 22 and including 40 CFR 60.18(d)(e)&amp;(f). The test period shall be two (2) hours.</b>

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [40 CFR 60, Appendix A; Rules 62-4.070, 62-204.800, and 62-297.401(22), F.A.C.]

- A.6. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection A. Emissions Unit 003**

**A.7. Annual Compliance Tests Required.** During each federal fiscal year (October 1<sup>st</sup> to September 30<sup>th</sup>), emissions unit (EU) 003 shall be tested to demonstrate compliance with the emissions standards for visible emissions specified in Specific Condition **A.3.** [Rule 62-297.310(7), F.A.C.]

**Recordkeeping and Reporting Requirements**

**A.8. Reporting Schedule.** The following reports and notifications shall be submitted to the Compliance Authority:

<b>Report</b>	<b>Reporting Deadline</b>	<b>Related Condition(s)</b>
Semi-Annual Compliance Report	Report once every 6 months (semi-annually).	40 CFR 63, Subpart AAAA

[Rule 62-213.440, F.A.C.; 40 CFR 63.1980(a)]

**A.9. Other Reporting Requirements.** See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

**Other Requirements**

**A.10. Federal Rule Requirements.** In addition to the specific conditions listed above, this emissions unit is also subject to the applicable requirements contained in 40 CFR 60, Subpart A – General Provisions and 40 CFR 60 Subpart WWW – Standards of Performance for Municipal Solid Waste Landfills; and 40 CFR 63, Subpart A – General Provisions and 40 CFR 63 Subpart AAAA – National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Facilities (all attached and part of this permit). [Rule 62-213.440, F.A.C.]

**A.11. PSD Applicability.** The requirements of subsections 62-212.400(4) through (12), F.A.C., apply to the construction of any new major stationary source or the major modification of any existing major stationary source. [Rule 62-212.400(2), F.A.C.]

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection B. Emissions Units 004, 005, 006, 007, 008, 009**

The specific conditions in this section apply to the following emissions units:

EU No.	Brief Description
004	Internal Combustion Engine No. 1
005	Internal Combustion Engine No. 2
006	Internal Combustion Engine No. 3
007	Internal Combustion Engine No. 4
008	Internal Combustion Engine No. 5
009	Internal Combustion Engine No. 6

**B.1. Equipment.** The facility includes six (6) Caterpillar, Model G3520C engines and electric generators. Each engine has a power generation rating of 2,233 brake horsepower at 100 percent load. The generator has a power rating of 1,600 kilowatts. The engines are fueled exclusively with landfill gas (LFG) generated by and received from the Central Disposal Facility. The landfill gas goes through a gas treatment system prior to combustion in the engines.

**Essential Potential to Emit (PTE) Parameters**

**B.2. Methods of Operation.**

- a. *Fuels.* Fuel fired in the engines is permitted to use only treated LFG generated by and received from the Central Disposal Facility. The use of any other fuel will require an amendment to this permit.
- b. *Engines.*
  - 1) The permittee shall operate each engine at the air-to-fuel ratio that the tested engine demonstrated compliance during the most recent performance test.
  - 2) The permittee shall operate each engine within 0.5% of the O<sub>2</sub> content in the exhaust gas at the air-to-fuel ratio that the tested engine demonstrated compliance during the most recent performance test.
  - 3) The permittee shall install and maintain an automatic fail-safe block valve on each engine. The fail-safe block valve must stop the flow of LFG in the event of an engine failure.
  - 4) Unless otherwise indicated, the modification/construction and operation of the Caterpillar internal combustion engines shall be in accordance with the capacities and specifications stated in the application.

[Rules 62-4.070, 62-210.300, 62-212.400, and 62-213.410, F.A.C.]

**B.3. Hours of Operation.** This emissions unit may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C.]

**B.4. Emissions Unit Operating Rate Limitation After Testing.** See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

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**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection B. Emissions Units 004, 005, 006, 007, 008, 009**

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**Emission Limitations and Standards**

- B.5. Visible Emissions.** Visible emissions from each engine/generator set exhaust shall not exceed 10% opacity. [Rule 62-212.400, F.A.C.]
- B.6. Nitrogen Oxides (NO<sub>x</sub>).** The emission rate of NO<sub>x</sub> from each engine/generator set exhaust shall not exceed 0.60 gram per brake horsepower hour (g/bhp-hr) and a maximum of 2.95 pounds per hour (lb/hr) and 12.94 tons per year (TPY). [Rule 62-212.400(12), F.A.C.]
- B.7. Carbon Monoxide (CO).** The emission rate of CO from each engine/generator set exhaust shall not exceed 3.50 g/bhp-hr and a maximum of 17.23 lb/hr and 75.3 TPY. [Rule 62-212.400(12), F.A.C. and Permit No. 0090069-009-AC/PSD-FL-378C]
- B.8. Particulate Matter.** Particulate matter emissions shall be controlled from each engine/generator set exhaust through the implementation of the following pretreatment and good combustion practices.
- a. Operate and maintain a landfill gas pretreatment system to dewater, filter and compress the landfill gas prior to combustion in the engines. During the final stage of pretreatment, the landfill gas shall pass through a coalescing filter of 1 micrometer or less to reduce particulate matter prior to combustion.
  - b. Implement good combustion practices to minimize particulate matter emissions: lean-burn combustion design, efficient combustion through the air-fuel controller and preventive and periodic maintenance in accordance with the requirements of 40 CFR 63, Subpart ZZZZ.
- {Permitting Note: Pretreatment and good combustion practices are expected to result in a maximum PM<sub>10</sub> emission rate of 0.24 g/bhp-hour, 1.18 lb/hr, and 5.17 TPY.}*
- [Rule 62-212.400(12), F.A.C. and Permit No. 0090069-009-AC/PSD-FL-378C]
- B.9. Volatile Organic Compounds (VOC).** The emission rate of total VOC from each engine/generator set exhaust shall not exceed 0.28 g/bhp-hr and a maximum of 1.37 lb/hr and 5.99 TPY. [Rule 62-212.400(12), F.A.C.]  
*{Permitting Note: Project avoids PSD review for VOC based on emission limits.}*
- B.10. Hydrogen Chloride (HCl).** The emission rate of HCl from each engine/generator set shall not exceed 10.9 lb/MMscf and 1.66 TPY. [Rule 62-210.200(PTE), F.A.C.]  
*{Permitting Note: Facility remains a minor source of HAP emissions based on permit limits.}*
- B.11. Sulfur Dioxide (SO<sub>2</sub>).** The emission rate of SO<sub>2</sub> from each engine/generator set shall not exceed 2.64 lbs/hr and 11.55 tons/year (TPY). The total SO<sub>2</sub> emissions from the six engines shall not exceed 69.3 TPY. [Rule 62-212.400, F.A.C.]  
*{Permitting Note: Project avoids PSD review based on emission limits.}*
- B.12. Hydrogen Sulfide (H<sub>2</sub>S).** The concentration of H<sub>2</sub>S in the landfill gas used as fuel in the engines shall not exceed 455 ppmv on a weekly rolling average, calculated on a calendar day basis, nor shall it exceed 550 ppmv on a 24-hour rolling average basis, calculated on an hourly basis. The

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection B. Emissions Units 004, 005, 006, 007, 008, 009

concentration of H<sub>2</sub>S shall be measured by the continuous monitoring system. [Rules 62-212.400 and 62-4.070(3), F.A.C.]

#### Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

- B.13. Excess Emissions Allowed.** Excess emissions resulting from malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]
- B.14. Excess Emissions Allowed.** Excess emissions resulting from startup or shutdown shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized. [Rule 62-210.700(2), F.A.C.]
- B.15. Excess Emissions Prohibited.** Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]
- B.16. Excess LFG Emissions.** Excess LFG not used as fuel in an engine must be flared in accordance with the requirements of 40 CFR 60 Subpart WWW. [Rule 62-4.070, F.A.C.; 40CFR60, Subpart WWW]

#### Monitoring of Operations

- B.17. LFG Flow.** Total landfill gas flow to the engines shall be continuously measured and recorded. [Rule 62-4.070, F.A.C.]
- B.18. Power Generation.** Gross electrical power generation (kw-hrs) shall be continuously measured and recorded for each engine individually and for the six engines combined. [Rule 62-4.070, F.A.C.]
- B.19. Engine Operating Hours.** Each engine/generator set shall be equipped with a non-resettable elapsed time meter to indicate, in cumulative hours, the elapsed engine operating time. [Rule 62-4.070, F.A.C.]

#### Continuous Monitoring Requirements

- B.20. H<sub>2</sub>S Continuous Monitoring System (CMS) Equipment.** Within 30 days of startup of any new or replacement continuous H<sub>2</sub>S monitoring unit, a performance evaluation shall be done using Performance Specification 7. EPA Methods 11, 15, 15A, or 16 shall be used for conducting the relative accuracy evaluations. The span value for this instrument is 1000 ppmv H<sub>2</sub>S. The CMS shall be calibrated, maintained, and operated according to the manufacturer specifications. **The monitoring requirements are subject to 40 CFR 63.8 sections (c),(d), and(g).** [Rules 62-210.200 (BACT) and 62-4.070(3), F.A.C.]

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

**Subsection B. Emissions Units 004, 005, 006, 007, 008, 009**

**Test Methods and Procedures**

**B.21. Test Methods.** Required tests shall be performed in accordance with the following reference methods:

<b>EPA Methods</b>	<b>Description of Method and Comments</b>
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
6 or 6C	Determination of Sulfur Dioxide Emissions from Stationary Sources
7 or 7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
10	Determination of Carbon Monoxide Emissions from Stationary Sources {Note: The method shall be based on a continuous sampling train.}
18	Measurement of Gaseous Organic Compound Emissions by Gas Chromatography
19	Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxides Emission Rates (Optional F-factor method may be used to determine flow rate and gas analysis to calculate mass emissions in lieu of Methods 1-4.)
25, 25A, or 25C	Method for Determining Gaseous Organic Concentrations (Flame Ionization)
26 or 26A	Determination of Hydrogen Chloride Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [40 CFR 60, Appendix A; 40 CFR 51, Appendix M; Rules 62-204.800 and 62-297.401, F.A.C.]

**B.22. Common Testing Requirements.** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

**B.23. Annual Compliance Tests Required.** During each federal fiscal year (October 1<sup>st</sup> to September 30<sup>th</sup>), only one of the six engines shall be tested to demonstrate compliance with the emissions standards for VE, NO<sub>x</sub>, CO, SO<sub>2</sub>, and HCl. A different engine shall be tested each year such that all engines are tested during the six-year cycle.  
[Rule 62-297.310(7), F.A.C.]

**B.24. Compliance Tests Prior To Renewal.** Compliance tests shall be performed for VOC emissions once every 5 years. The tests shall occur prior to obtaining a renewed operating permit to demonstrate compliance with the emission limits in Specific Conditions **B.9**. [Rules 62-210.300(2)(a) and 62-297.310(7)(a), F.A.C.]

**B.25. Additional Compliance Test Requirements.** For the duration of all tests the emissions units shall be operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum operating rate allowed by the permit. If it is impracticable to test at permitted capacity, then the emission unit may be tested at less than permitted capacity (i.e., 90% of the maximum operating rate

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection B. Emissions Units 004, 005, 006, 007, 008, 009

allowed by the permit); in this case, subsequent emission unit operation is limited to 110 percent of the test load until a new test is conducted. Once the emission unit is so limited, then operation at higher capacities is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the permitted capacity in the permit. [Rule 62-297.310(2), F.A.C.]

- B.26. Fuel Analysis Requirements.** The permittee shall comply with the following requirements to monitor the sulfur and chlorine content of the landfill gas:
- The permittee shall sample and analyze the landfill gas for chlorine content. The gas sample collected for the analyses shall be a composite sample and collected under normal operating conditions (i.e., with valves open for all operating cells). The gas sample collection and analyses for chlorine content shall be done semi-annually. Based on the sampling results and Rule 62-297.310(7)(b), F.A.C., the Department may request additional gas sampling and analyses. Results shall be reported as SO<sub>2</sub> and HCl emission factors in terms of lb/MMscf (equivalent in ppmv) and lb/MMBtu of landfill gas.
  - During each required compliance test conducted for HCl, the permittee shall sample and analyze the landfill gas for the chlorine content. Results for the compliance test shall be reported in terms of HCl emissions in lb/hr and the sample analysis result shall be reported as HCl emission factor in terms of lb/MMscf of landfill gas.
  - Analysis of the chlorine content shall be used to track changes in the landfill gas. Based on the analysis, the Compliance Authority may require additional stack testing for HCl emissions to determine compliance with the emissions standard.
  - Compliance with the fuel sulfur specification shall be determined based on each analysis for the sulfur content of the landfill gas.

[Rules 62-210.200(PTE) and 62-212.400(12), F.A.C.]

#### **Recordkeeping and Reporting Requirements**

- B.27. Reporting Requirements.** See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

#### **Other Requirements**

- B.28. Federal NSPS Requirements.** In addition to the specific conditions listed above, these emissions units are also subject to the applicable requirements contained in 40 CFR 60, Subpart A-General Provisions and 40 CFR 60, Subpart WWW-Municipal Solid Waste (MSW) Landfills (attached and part of this permit). [Rule 62-213.440, F.A.C.]

- B.29. Federal NESHAP Requirements.** In addition to the specific conditions listed above, these emissions units are also subject to the applicable requirements contained in 40 CFR 63, Subpart A-General Provisions and 40 CFR 63, Subpart AAAA-MSW Facilities, and 40 CFR 63, Subpart ZZZZ-Reciprocating Internal Combustion Engines (attached and part of this permit).

NESHAP Subpart ZZZZ: The National Emission Standards for Hazardous Air Pollutants (NESHAP) for Reciprocating Internal Combustion Engines (RICE), Subpart ZZZZ of Part 63 for Existing Stationary RICE located at area sources states that at a minimum the following maintenance shall be performed:

**SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

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**Subsection B. Emissions Units 004, 005, 006, 007, 008, 009**

- a) Change oil and filter every 1,440 hours of operation or annually, whichever comes first. Sources have the option to utilize an oil analysis program as described in § 63.6625(i) in order to extend the specified oil change requirement;
- b) Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; and
- c) Inspect all hoses and belts every 1,440 hours of operation or annually; whichever comes first, and replace as necessary.

**Compliance with 40 CFR Part 63, Subpart ZZZZ emission limitations and operating limitations must occur no later than October 19, 2013.** [Rule 62-213.440, F.A.C.]

**B.30. PSD Applicability.** The requirements of subsections 62-212.400(4) through (12), F.A.C., apply to the construction of any new major stationary source or the major modification of any existing major stationary source. [Rule 62-212.400(2), F.A.C.]

**SECTION IV. APPENDICES.**

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**The Following Appendices Are Enforceable Parts of This Permit:**

- Appendix A, Glossary.
- Appendix I, List of Insignificant Emissions Units and/or Activities.
- Appendix ICE, Requirements for Internal Combustion Engines.
- Appendix NESHAP, Subpart A - General Provisions.
- Appendix NESHAP, Subpart AAAA- Municipal Solid Waste Facilities.
- Appendix NESHAP, Subpart ZZZZ- Reciprocating Internal Combustion Engines.
- Appendix NSPS, Subpart A - General Provisions.
- Appendix NSPS, Subpart WWW- Municipal Solid Waste Landfills.
- Appendix RR, Facility-wide Reporting Requirements.
- Appendix TR, Facility-wide Testing Requirements.
- Appendix TV, Title V General Conditions.