

# Leon County Board of County Commissioners Leon County Solid Waste Management Facility

Facility ID No. 0730099  
Leon County

## Title V Air Operation Permit Renewal

**Permit No. 0730099-009-AV**

(Renewal of Title V Air Operation Permit No. 0730099-007-AV)



### **Permitting Authority:**

State of Florida  
Department of Environmental Protection  
Division of Air Resource Management  
Office of Permitting and Compliance  
2600 Blair Stone Road  
Mail Station #5505  
Tallahassee, Florida 32399-2400  
Telephone: (850) 717-9000  
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### **Compliance Authority:**

Department of Environmental Protection  
Northwest District Office  
160 Governmental Center, Suite 308  
Pensacola, Florida 32502-5794  
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**Title V Air Operation Permit Renewal**

Permit No. 0730099-009-AV

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**PERMITTEE:**

Leon County Board of County Commissioners  
7550 Apalachee Parkway  
Tallahassee, Florida 32311

Permit No. 0730099-009-AV  
Leon County Solid Waste Management Facility  
Facility ID No. 0730099  
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 existing Leon County Solid Waste Management Facility is located at 7550 Apalachee Parkway, Tallahassee, in Leon County. UTM Coordinates are: Zone 16, 774.0 km East and 3369.1 km North; Latitude: 30° 25' 30" North and Longitude: 84° 08' 50" 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, and 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: March 6, 2013  
Renewal Application Due Date: July, 24, 2017  
Expiration Date: March 6, 2018

*for* Jeffery F. Koerner, Program Administrator  
Office of Permitting and Compliance  
Division of Air Resource Management

JFK/sa/ejs

**SECTION I. FACILITY INFORMATION.**

**Subsection A. Facility Description.**

This facility consists of a 312-acre landfill consisting of both Class I and Class III waste disposal areas with a voluntarily installed gas collection system; a landfill gas utility flare; and an emergency diesel powered generator. Activities at the facility generate landfill gases resulting from the decomposition of the solid waste, and particulate matter resulting from vehicular traffic and soil moving/handling.

The Department issued Solid Waste Operating Permit 0009560-003-SO on October 27, 2003, which approved a 30-foot vertical expansion of the Class I disposal area making the landfill subject to the requirements of 40 CFR 60 Subpart WWW. The maximum design capacity is now 4,684,206 Mg of Class I waste (expansion accounts for 380,732 Mg). An updated estimate of anticipated future Non-Methane Organic Compounds (NMOC) emissions does not exceed 50 Mg/yr, therefore, the facility is not required to install and operate a landfill gas collection and control system. However, a gas collection and control system was voluntarily installed. Asbestos containing material is also disposed in the landfill and these activities are subject to the requirements of 40 CFR 61 Subpart M (Set A)

A Utility “candlestick” flare (EU 003) is used as a safety measure to prevent the dangerous buildup of gases and is not required to satisfy control requirements of NSPS Subpart WWW. Using EPA-approved LandGEM modeling with various emissions and bases, the 50 megagram per year NMOC emission rate threshold, which would require the installation of a gas collection and control system, in 40 CFR 60 Subpart WWW is not exceeded during operation, closure or post-closure (long-term care) at this landfill.

The emergency diesel powered generator is a Model WDG6/4 2004 Olympian Diesel Emergency Generator, Serial No. OLY00000PNAT00929, used to provide power to the facility during outages. This engine was manufactured in 2003. The engine is subject to the requirements of 40 CFR 63, Subpart ZZZZ and is classified as an existing, emergency CI engine, by the subpart.

**Subsection B. Summary of Emissions Units.**

<b>EU No.</b>	<b>Brief Description</b>
<i>Regulated Emissions Units</i>	
-001	Landfill (Class I Disposal Area)
-003	Landfill Gas Utility Flare
-004	Olympian Diesel Emergency Generator

Also included in this permit are miscellaneous insignificant emissions units and/or activities (see Appendix I, List of Insignificant Emissions Units and/or Activities).

**Subsection C. Applicable Regulations.**

Based on the Title V air operation permit renewal application received November 9, 2012, this facility is not a major source of hazardous air pollutants (HAP). A summary of applicable regulations is shown in the following table.

<b>Regulation</b>	<b>EU No(s).</b>
<i>Federal Rule Citations</i>	
40 CFR 60, Subpart A, NSPS General Provisions	-001, -003
Appendix 40 CFR 60 Subpart WWW – Standards of Performance for Municipal Solid Waste Landfills	-001, -003
Appendix 40 CFR 61 Subpart A – General Provisions - NESHAP	-001
Appendix 40 CFR 61 Subpart M (Set A) – NESHAP For Asbestos	-001

**SECTION I. FACILITY INFORMATION.**

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Appendix 40 CFR 63 Subpart A – General Provisions - NESHAP	-004
Appendix 40 CFR 63 Subpart ZZZZ – NESHAP for Stationary Reciprocating Internal Combustion Engines	-004
<i>State Rule Citations</i>	
Rule 62-4, Florida Administrative Code (F.A.C.) (Permitting Requirements)	001, 003, 004
Rule 62-204, F.A.C. (Ambient Air Quality Requirements, PSD Increments, and Federal Regulations Adopted by Reference)	001, 003, 004
Rule 62-210, F.A.C. (Permits Required, Public Notice, Reports, Stack Height Policy, Circumvention, Excess Emissions, and Forms)	001, 003, 004
Rule 62-213, F.A.C. (Title V Air Operation Permits for Major Sources of Air Pollution)	001
Rule 62-297, F.A.C. (Test Methods and Procedures, Continuous Monitoring Specifications, and Alternate Sampling Procedures)	003

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

*{Permitting Note: Nothing is deemed necessary and ordered at this time.}*

**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. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b), 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:

- a. Paved parking areas and access roads surrounding the active disposal area
- b. Posted speed limits
- c. Watering of unpaved roadways as conditions warrant
- d. Maintaining vegetated buffer areas surrounding the site
- e. Prohibiting unnecessary off-road travel
- f. Monitor established vegetation growth on the landfill cap.
- g. If a high volume of traffic is expected, the County will spray roads with water to prevent dust from escaping.
- h. Any on-site construction projects will utilize best management practices in preventing fugitive emissions. [Rule 62-296.320(4)(c), F.A.C.; 0730099-002-AC; and, proposed by applicant in Title V air operation permit renewal application received November 9, 2012.

### **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

## SECTION II. FACILITY-WIDE CONDITIONS.

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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 (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 001**

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

<b>EU No.</b>	<b>Brief Description</b>
-001	Landfill (Class I Disposal Area)

This facility is a 312-acre landfill consisting of both Class I and Class III waste disposal areas. Activities at the facility generate both landfill gases resulting from the decomposition of the solid waste, and particulate matter resulting from vehicular traffic and soil moving/handling. The landfill began accepting waste in 1977 and was subject to the emissions guidelines of 40 CFR 60 Subpart Cc. On October 27, 2003, the Department issued Solid Waste Operating Permit 0009560-003-SO to the existing landfill, which approved a 30-foot vertical expansion of the Class I disposal area, making the landfill now subject to 40 CFR 60 Subpart WWW. The maximum design capacity is now 4,684,206 Mg of Class I waste (expansion accounts for 380,732 Mg). An updated estimate of anticipated future Non-Methane Organic Compounds (NMOC) emissions does not exceed 50 Mg/yr, therefore, the facility is not required to install and operate a landfill gas collection and control system. Asbestos containing material is also disposed in the landfill and these activities are subject to the requirements of 40 CFR 61 Subpart M (Set A).

*{Permitting Note: This emissions unit is not subject to NESHAP Subpart AAAA, National Emissions Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills, because it does not produce uncontrolled emissions equal to or greater than 50 megagrams per year of NMOC as calculated per 60.754(a) of NSPS Subpart WWW. The facility is not expected to exceed this threshold.}*

**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. NMOC Emission Rate.** Each owner or operator of an MSW landfill having a design capacity equal to or greater than 2.5 million megagrams and 2.5 million cubic meters, shall either comply with paragraph (b)(2) of §60.752 or calculate an NMOC emission rate for the landfill using the procedures specified in §60.754. The NMOC emission rate shall be recalculated annually, except as provided in §60.757(b)(1)(ii) of this subpart. The owner or operator of an MSW landfill subject to this subpart with a design capacity greater than or equal to 2.5 million megagrams and 2.5 million cubic meters is subject to part 70 or 71 permitting requirements.

(1) If the calculated NMOC emission rate is less than 50 megagrams per year, the owner or operator shall:

(i) Submit an annual emission report to the Administrator, except as provided for in §60.757(b)(1)(ii); and

(ii) Recalculate the NMOC emission rate annually using the procedures specified in §60.754(a)(1) until such time as the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, or the landfill is closed.

(A) If the NMOC emission rate, upon recalculation required in paragraph (b)(1)(ii) of this section, is equal to or greater than 50 megagrams per year, the owner or operator shall install a collection and control system in compliance with paragraph (b)(2) of this section.

(B) If the landfill is permanently closed, a closure notification shall be submitted to the Administrator as provided for in §60.757(d). [40 CFR 60.752(b)]

**A.3. Asbestos Disposal.** Permittee is subject to the requirements of 40 CFR 61.154 for the disposal of covered asbestos containing wastes. [40 CFR 61.154]

**A.4. Asbestos Disposal** Permittee shall comply with at least one of the following requirements of a, b or c:

a) There must be no visible emissions to the outside air from any active waste disposal site where asbestos-containing waste material has been deposited, or



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

**Subsection A. Emissions Unit 001**

b) At the end of each operating day, or at least once every 24-hour period while the site is in continuous operation, the asbestos-containing waste material that has been deposited at the site during the operating day or previous 24-hour period shall:

- (1) Be covered with at least 15 centimeters (6 inches) of compacted non-asbestos-containing material, or
- (2) Be covered with a resinous or petroleum-based dust suppression agent that effectively binds dust and controls wind erosion. Such an agent shall be used in the manner and frequency recommended for the particular dust by the dust suppression agent manufacturer to achieve and maintain dust control. Other equally effective dust suppression agents may be used with prior approval by the Administrator. For purposes of the paragraph, any used, spent, or other waste oil is not considered a dust suppression agent.

c) Use an alternative emissions control method that has received prior written approval by the Administrator.

Unless a natural barrier adequately deters access by the general public, either warning signs or fencing must be installed and maintained, or the requirements of (b)(1) above must be met. [40 CFR 61.154(a), (b), (c) and (d)]

**Control Technology**

**A.5. Landfill Gas Collection and Control System.** If the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, the owner or operator shall:

(i) Submit a collection and control system design plan prepared by a professional engineer to the Administrator within one year.

Permittee shall submit an application for a construction permit for the control system and revision to the Title V permit to the Department within one year of equaling or exceeding 50 mg/yr of NMOC emission rate. [40 CFR 60.752(b)2.]

**Monitoring of Operations**

**A.6. Calculation of the NMOC Emission Rate.**

(1) The landfill owner or operator shall calculate the NMOC emission rate using either the equation provided in paragraph (a)(1)(i) of §60.754 or the equation provided in paragraph (a)(1)(ii) of §60.754. Both equations may be used if the actual year-to-year solid waste acceptance rate is known, as specified in paragraph (a)(1)(i), for part of the life of the landfill and the actual year-to-year solid waste acceptance rate is unknown, as specified in paragraph (a)(1)(ii), for part of the life of the landfill. The values to be used in both equations are 0.05 per year for k, 170 cubic meters per megagram for L<sub>o</sub>, and 4,000 parts per million by volume as hexane for the C<sub>NMOC</sub>. For landfills located in geographical areas with a thirty year annual average precipitation of less than 25 inches, as measured at the nearest representative official meteorological site, the k value to be used is 0.02 per year.

(i) The following equation shall be used if the actual year-to-year solid waste acceptance rate is known.

$$M_{NMOC} = \sum_{i=1}^n 2 k L_o M_i (e^{-k_i}) (C_{NMOC}) (3.6 \times 10^{-9})$$

where,

M<sub>NMOC</sub> = Total NMOC emission rate from the landfill, megagrams per year

k = methane generation rate constant, year<sup>-1</sup>

L<sub>o</sub> = methane generation potential, cubic meters per megagram solid waste

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

#### Subsection A. Emissions Unit 001

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$M_i$  = mass of solid waste in the  $i^{\text{th}}$  section, megagrams

$t_i$  = age of the  $i^{\text{th}}$  section, years

$C_{\text{NMOC}}$  = concentration of NMOC, parts per million by volume as hexane

$3.6 \times 10^{-9}$  = conversion factor

The mass of nondegradable solid waste may be subtracted from the total mass of solid waste in a particular section of the landfill when calculating the value for  $M_i$  if documentation of the nature and amount of such wastes is maintained

- (ii) The following equation shall be used if the actual year-to-year solid waste acceptance rate is unknown.

$$M_{\text{NMOC}} = 2L_o R (e^{-kc} - e^{-kt}) C_{\text{NMOC}} (3.6 \times 10^{-9})$$

Where:

$M_{\text{NMOC}}$  = mass emission rate of NMOC, megagrams per year

$L_o$  = methane generation potential, cubic meters per megagram solid waste

$R$  = average annual acceptance rate, megagrams per year

$k$  = methane generation rate constant, year<sup>-1</sup>

$t$  = age of landfill, years

$C_{\text{NMOC}}$  = concentration of NMOC, parts per million by volume as hexane

$c$  = time since closure, years; for active landfill  $c=0$  and  $e^{-kc}1$

$3.6 \times 10^{-9}$  = conversion factor

The mass of nondegradable solid waste may be subtracted from the total mass of solid waste in a particular section of the landfill when calculating the value of  $R$ , if documentation of the nature and amount of such wastes is maintained.

- (2) *Tier 1.* The owner or operator shall compare the calculated NMOC mass emission rate to the standard of 50 megagrams per year.

(i) If the NMOC emission rate calculated in paragraph (a)(1) of this section is less than 50 megagrams per year, then the landfill owner shall submit an emission rate report as provided in §60.757(b)(1), and shall recalculate the NMOC mass emission rate annually as required under §60.752(b)(1).

(ii) If the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, then the landfill owner shall either comply with §60.752(b)(2), or determine a site-specific NMOC concentration and recalculate the NMOC emission rate using the procedures provided in paragraph (a)(3) of this section.

- (3) *Tier 2.* The landfill owner or operator shall determine the NMOC concentration using the following sampling procedure. The landfill owner or operator shall install at least two sample probes per hectare of landfill surface that has retained waste for at least 2 years. If the landfill is larger than 25 hectares in area, only 50 samples are required. The sample probes should be located to avoid known areas of nondegradable solid waste. The owner or operator shall collect and analyze one sample of landfill gas from each probe to determine the NMOC concentration using Method 25 or 25C of Appendix A of this part. Method 18 of Appendix A of this part may be used to analyze the samples collected by the Method 25 or 25C sampling procedure. Taking composite samples from different probes into a single cylinder is

## SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

### Subsection A. Emissions Unit 001

allowed; however, equal sample volumes must be taken from each probe. For each composite, the sampling rate, collection times, beginning and ending cylinder vacuums, or alternative volume measurements must be recorded to verify that composite volumes are equal. Composite sample volumes should not be less than one liter unless evidence can be provided to substantiate the accuracy of smaller volumes. Terminate compositing before the cylinder approaches ambient pressure where measurement accuracy diminishes. If using Method 18, the owner or operator must identify all compounds in the sample and, as a minimum, test for those compounds published in the most recent Compilation of Air Pollutant Emission Factors (AP-42), minus carbon monoxide, hydrogen sulfide, and mercury. As a minimum, the instrument must be calibrated for each of the compounds on the list. Convert the concentration of each Method 18 compound to  $C_{\text{NMOC}}$  as hexane by multiplying by the ratio of its carbon atoms divided by six. If more than the required number of samples are taken, all samples must be used in the analysis. The landfill owner or operator must divide the NMOC concentration from Method 25 or 25C of Appendix A of this part by six to convert from  $C_{\text{NMOC}}$  as carbon to  $C_{\text{NMOC}}$  as hexane. If the landfill has an active or passive gas removal system in place, Method 25 or 25C samples may be collected from these systems instead of surface probes provided the removal system can be shown to provide sampling as representative as the two sampling probe per hectare requirement. For active collection systems, samples may be collected from the common header pipe before the gas moving or condensate removal equipment. For these systems, a minimum of three samples must be collected from the header pipe.

(i) The landfill owner or operator shall recalculate the NMOC mass emission rate using the equations provided in paragraph (a)(1)(i) or (a)(1)(ii) of this section and using the average NMOC concentration from the collected samples instead of the default value in the equation provided in paragraph (a)(1) of this section.

(ii) If the resulting mass emission rate calculated using the site-specific NMOC concentration is equal to or greater than 50 megagrams per year, then the landfill owner or operator shall either comply with §60.752(b)(2), or determine the site-specific methane generation rate constant and recalculate the NMOC emission rate using the site-specific methane generation rate using the procedure specified in paragraph (a)(4) of this section.

(iii) If the resulting NMOC mass emission rate is less than 50 megagrams per year, the owner or operator shall submit a periodic estimate of the emission rate report as provided in §60.757(b)(1) and retest the site-specific NMOC concentration every 5 years using the methods specified in this section.

(4) *Tier 3.* The site-specific methane generation rate constant shall be determined using the procedures provided in Method 2E of appendix A of this part. The landfill owner or operator shall estimate the NMOC mass emission rate using equations in paragraph (a)(1)(i) or (a)(1)(ii) of this section and using a site-specific methane generation rate constant  $k$ , and the site-specific NMOC concentration as determined in paragraph (a)(3) of this section instead of the default values provided in paragraph (a)(1) of this section. The landfill owner or operator shall compare the resulting NMOC mass emission rate to the standard of 50 megagrams per year.

(i) If the NMOC mass emission rate as calculated using the site-specific methane generation rate and concentration of NMOC is equal to or greater than 50 megagrams per year, the owner or operator shall comply with §60.752(b)(2).

(ii) If the NMOC mass emission rate is less than 50 megagrams per year, then the owner or operator shall submit a periodic emission rate report as provided in §60.757(b)(1) and shall recalculate the NMOC mass emission rate annually, as provided in §60.757(b)(1) using the equations in paragraph (a)(1) of this section and using the site-specific methane generation rate constant and NMOC concentration obtained in paragraph (a)(3) of this section. The calculation of the methane generation rate constant is performed only once, and the value obtained from this test shall be used in all subsequent annual NMOC emission rate calculations.

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

**Subsection A. Emissions Unit 001**

(5) The owner or operator may use other methods to determine the NMOC concentration or a site-specific k as an alternative to the methods required in paragraphs (a)(3) and (a)(4) of this section if the method has been approved by the Administrator. [40 CFR 60.754(a)]

**Recordkeeping and Reporting Requirements**

**A.7. 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>
NMOC Emission Rate Reports	initially and annually thereafter	A.9.
Facility Closure Report	Within 30 days of Waste Acceptance Cessation	A.10.

[Rule 62-213.440(1)(b), F.A.C.]

**A.8. Other Reporting Requirements.** See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

**A.9. NMOC Emission Rate Reports**

Each owner or operator subject to the requirements of this subpart shall submit an NMOC emission rate report to the Administrator initially and annually thereafter, except as provided for in paragraphs (1)(ii) or (3) of this section. The Administrator may request such additional information as may be necessary to verify the reported NMOC emission rate.

(1) The NMOC emission rate report shall contain an annual or five-year estimate of the NMOC emission rate.

(i) NMOC emission rate reports shall be submitted annually, except as provided for in paragraphs (1)(ii) and (3) of this section.

(ii) If the estimated NMOC emission rate as reported in the annual report to the Administrator is less than 50 megagrams per year in each of the next five consecutive years, the owner or operator may elect to submit an estimate of the NMOC emission rate for the next five-year period in lieu of the annual report. This estimate shall include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the five years for which an NMOC emission rate is estimated. All data and calculations upon which this estimate is based shall be provided to the Administrator. This estimate shall be revised at least once every five years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the five-year estimate, a revised five-year estimate shall be submitted to the Administrator. The revised estimate shall cover the five-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate.

(2) The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the annual or five-year emissions.

(3) Each owner or operator subject to the requirements of this subpart is exempted from the requirements of paragraphs (1) and (2) of this section, after the installation and in compliance operation of a collection and control system. [40 CFR 60.757]

**A.10. Facility Closure Report.** Each owner or operator of a controlled landfill shall submit a closure report to the Administrator within 30 days of waste acceptance cessation. The Administrator may request additional information as may be necessary to verify that permanent closure has taken place. If a closure report has been submitted to the Administrator, no additional wastes may be placed into the landfill. [40 CFR 60.757]

**A.11. Asbestos Records and Reports.** Permittee shall maintain records and reports in accordance with 40 CFR 61.154(e) and for a period of at least five years. [40 CFR 61.154(e)]

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

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**Subsection A. Emissions Unit 001**

**A.12. Asbestos Location Records.** Permittee shall maintain, until closure, location records of the asbestos containing waste subject to 40 CFR 61.154 in accordance with 40 CFR 61.154(f). [40 CFR 61.154(f)]

**Other Requirements**

**A.13. Requirement for Title V Permit.** When a MSW landfill subject to this subpart is closed, the owner or operator is no longer subject to the requirement to maintain an operating permit under part 70 or 71 of this chapter for the landfill if the landfill is not otherwise subject to the requirements of either part 70 or 71 and if the following condition is met:

- (1) The landfill was never subject to the requirement for a control system (GCCS). [40 CFR 60.752]

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

**Subsection B. Emissions Unit 003**

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

EU No.	Brief Description
-003	Landfill Gas Utility Flare

This emissions unit is a Utility “candlestick” flare to continuously burn landfill gas, assisting in odor reduction and greatly reducing the risk of explosion and fire. The flare is manufactured by LFG Specialties, L.L.C., utility flare Model No. CF62016. The flare can operate between 79 and 793 SCFM. The estimated maximum flow rate of landfill gas is 650 SCFM. A blower will be utilized to extract landfill gas out of the landfill. Additional landfill gas wells, lateral landfill gas collection and header pipes will also be constructed as the landfill cells are filled out.

The flare and landfill gas collection system are not specifically required by state rules nor have they been installed to satisfy the control requirements of NSPS Subpart WWW. Using EPA approved LandGEM modeling with various emissions and bases, the 50 megagram per year NMOC emission rate is not exceeded during operation; closure; or, post-closure (long-term care) at this Landfill.

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

- B. 1. 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.]
- B. 2. Methods of Operation. Fuels.** The fuels that are allowed to be burned in this unit are landfill gas, natural gas, or propane. [Rule 62-213.410, F.A.C.; and, Permit No. 0730099-006-AC.]
- B. 3. Hours of Operation.** This emissions unit may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C.]

**Emission Limitations and Standards**

*{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}*

Unless otherwise specified, the averaging time for Specific Condition **B.4.** is based on the specified averaging time of the applicable test method.

- B. 4. Visible Emissions.** No visible emission (five percent opacity), except that visible emissions (VE) not exceeding 20 percent opacity, are allowed for up to three minutes in any one-hour period, averaging times and correction factors as established by AC permit. [0730099-006-AC]

**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. 5. Excess Emissions Allowed.** Excess emissions resulting from startup, shutdown or malfunction of any emissions unit 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. 6. 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.]

**Test Methods and Procedures**

- B. 7. Test Methods.** When required, tests shall be performed in accordance with the following reference methods:

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

**Subsection B. Emissions Unit 003**

<b>Method</b>	<b>Description of Method and Comments</b>
9	Visual Determination of the Opacity of 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. [Rule 62-297.401, F.A.C.; and, 0730099-006-AC]

*{Permitting Note: 40 CFR 60 subpart WWW defines a flare as an open combustor without enclosure or shroud. This flare has nozzles within a windshield shroud enhancing mixing of landfill gas, auxiliary fuel and air prior to the open flame zone. In a "pure" candlestick flare all the mixing and combustion occur after the end of the flare stack. DEP Method 9 can be used for VE testing on an enclosed combustor-type flare and the applicant accepted this test method over DEP Method 22.}*

**B. 8. 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. 9. Compliance Tests Prior To Renewal.** Compliance tests shall also be performed for opacity prior to obtaining a renewed operation permit to demonstrate compliance with the emission limits in Specific Condition **B.4.** [Rules 62-210.300(2)(a) and 62-297.310(7)(a), F.A.C.]

*{Permitting Note: Tests which are only required once during the term of a permit prior to obtaining a renewed permit should be performed roughly five years from the previous test.}*

**Recordkeeping and Reporting Requirements**

**B. 10. Reporting and Recordkeeping Requirements.** The Department shall be notified at least 15 days prior to testing to allow witnessing. Results shall be submitted to the Department within 45 days after testing. [0730099-006-AC]

**B. 11. Other Reporting Requirements.** See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

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

**Subsection C. Emissions Unit 004**

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

<u>E.U. ID No.</u>	<u>Brief Description</u>
-004	Olympian Diesel Emergency Generator

This emissions unit is a Model WDG6/4 2004 Olympian Diesel Emergency Generator, Serial No. OLY00000PNAT00929, used to provide power to the facility during outages. This engine was manufactured in 2003. The engine is subject to the requirements of 40 CFR 63, Subpart ZZZZ and is classified as an existing, emergency CI engine, by the subpart.

The following table provides important details for this emissions unit:

<b>E.U. ID No.</b>	<b>Engine Brake HP</b>	<b>Date of Construction</b>	<b>Model Year</b>	<b>Primary Fuel</b>	<b>Type of Engine</b>	<b>Displacement liters/cylinder (l/c)</b>	<b>Model No.</b>	<b>Date of last mod. or reconstruction</b>
-004	179.9	2004	2003	Diesel	Emergency	1.6	WDG6/4	N/A

*{Permitting Note: This emissions unit, compression ignition (CI) engine, is regulated under 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary RICE adopted in Rule 62.204.800(11)(b), F.A.C. This RICE is for emergency engines. This permit section addresses an “existing” stationary CI RICE less than or equal to 500 HP that is located at an Area source of HAPs and that has not been modified or reconstructed after 6/12/2006. If the RICE is modified or reconstructed after 7/11/2005, the NSPS 40 CFR 60, Subpart IIII, will then apply. **The permittee shall comply with the following emissions and operating limitations no later than May 3, 2013.**}*

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

**C.1. Engine Startup.** During periods of startup the owner or operator must minimize the engine's time spent at idle and minimize the engine's startup time to a period needed for the appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. [40 CFR 63.6625(h)]

**Emission Limitations and Operating Requirements**

**C.2. Work or Management Practice Standards.**

- a. *Oil.* Change oil and filter every 500 hours of operation or annually, whichever comes first. [40 CFR 63.6603(a) & Table 2d4.a.]
- b. *Air Cleaner.* Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first. [40 CFR 63.6603(a) & Table 2d4.b.]
- c. *Hoses and Belts.* Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63.6603(a) & Table 2d4.c.]
- d. *Operation and Maintenance.* Operate and maintain the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions or develop and follow 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. [40 CFR 63.6625(e), 63.6640(a) & Table 6.9.a.]
- e. *Oil Analysis.* The owner or operator has the option of using oil analysis to extend the change requirement. The oil analysis must be performed at the same frequency specified for changing the oil in **C.2.a.** The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent of water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base 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 of water content (by volume) is greater than 0.5. If all of these condemning limits are not



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

**Subsection C. Emissions Unit 004**

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 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 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. [40 CFR 63.6625(i)]

**Compliance**

**C.3. Continuous Compliance.** At all times, this unit:

- a. Must be in compliance with the operating limitations in this section.
- b. Must be operated and maintained 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.

[40 CFR 63.6605]

**Recordkeeping Requirements**

**C.4. Maintenance Records.** The owner or operator must keep records of the maintenance conducted on this unit in order to demonstrate that it is operated and maintained according to their own maintenance plan. [40 CFR 63.6655(e)]

**C.5. Record Retention.**

- a. The owner or operator must keep records in a suitable and readily available form for expeditious reviews.
- b. The owner or operator 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.

[40 CFR 63.6660 and 40 CFR 63.10(b)(1)]

**General Provisions**

**C.6. 40 CFR 63 Subpart A, General Provisions.** This engine shall comply with all applicable requirements of 40 CFR 63 Subpart A, General Provisions, which have been adopted by reference in Rule 62-204.800(11)(d)1., F.A.C., except that the Secretary is not the Administrator for purposes of 40 CFR 63.5(e), 40 CFR 63.5(f), 40 CFR 63.6(g), 40 CFR 63.6(h)(9), 40 CFR 63.6(j), 40 CFR 63.13, and 40 CFR 63.14. This engine shall comply with the applicable portions of Appendix 40 NESHAP Subpart A included with this permit, as specified below.

<b>General Provisions Citation</b>	<b>Subject of Citation</b>
§63.1	General applicability of the General Provisions
§63.2	Definitions
§63.3	Units and abbreviations
§63.4	Prohibited activities and circumvention
§63.5	Construction and reconstruction
§63.6(a)	Applicability
§63.9(i)	Adjustment of submittal deadlines
§63.9(j)	Change in previous information

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

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**Subsection C. Emissions Unit 004**

<b>General Provisions Citation</b>	<b>Subject of Citation</b>
§63.10(a)	Administrative provisions for recordkeeping/reporting
§63.10(b)(1)	Record retention
§63.10(b)(2)(vi)–(xi)	Records
§63.10(b)(2)(xii)	Record when under waiver
§63.10(b)(2)(xiv)	Records of supporting documentation
§63.10(b)(3)	Records of applicability determination
§63.10(d)(1)	General reporting requirements
§63.10(d)(4)	Progress Reports
§63.10(f)	Waiver for recordkeeping/reporting
§63.12	State authority and delegations
§63.13	Addresses
§63.14	Incorporation by reference
§63.15	Availability of information

[40 CFR 63.6665; and, Rule 62-204.800(11)(d)1., 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 40 CFR 61 Subpart A – General Provisions - NESHAP.

Appendix 40 CFR 61 Subpart M (Set A) – NESHAP For Asbestos.

Appendix 40 CFR 63 Subpart A – General Provisions - NESHAP.

Appendix 40 CFR 63 Subpart ZZZZ – NESHAP for Stationary Reciprocating Internal Combustion Engines.

Appendix 40 CFR 60 Subpart A – General Provisions - NSPS.

Appendix 40 CFR 60 Subpart Cc – Emissions Guidelines and Compliance Times for Municipal Solid Waste Landfills.

Appendix 40 CFR 60 Subpart WWW – Standards of Performance for Municipal Solid Waste Landfills.

Appendix RR, Facility-wide Reporting Requirements.

Appendix TR, Facility-wide Testing Requirements.

Appendix TV, Title V General Conditions.