Lake County Board of County Commissioners
Lake County Central Solid Waste Management Facility
Facility ID No. 0694864
Lake County

Initial Title V Air Operation Permit

Permit No. 0694864-001-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
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Compliance Authority:

State of Florida
Department of Environmental Protection
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FINAL PERMIT

PERMITTEE:
Lake County BOCC
P.O. Box 7800
Tavares, Florida 32778-7800

Permit No. 0694864-001-AV
Lake County Solid Waste Management Facility
Facility ID No. 0694864
Initial Title V Air Operation Permit

The purpose of this permit is for the initial Title V air operation permit for the above referenced facility. The Lake County Central Solid Waste Management Facility is located in Lake County at 13130 County Landfill Road, Tavares, Florida. UTM Coordinates are: Zone 17, 427.81 East and 3181.80 North. Latitude is: 28˚45'42" North; and, Longitude is: 81˚44'22" 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: **September 20, 2012**
Renewal Application Due Date: **February 07, 2017**
Expiration Date: **September 20, 2017**

Caroline D. Shine
Air Program Administrator

CDS/jr/ngm

Subsection A. Facility Description.

The Lake County Central Solid Waste Management Facility (LCCSWMF) is a multi-function solid waste management facility that includes Class I waste disposal, ash and construction & demolition (C&D) debris waste disposal, yard waste mulching, recyclables separation and processing, household hazardous waste collection and storage, waste tire storage and transfer, freon recovery, paper, scrap metal and white goods processing, and electronics recycling. Landfill has never been an active asbestos waste disposal site.

Landfill gas emissions are not required to be collected and controlled at this time. The landfill is required to submit an NMOC emissions rate report every five years to demonstrate compliance with NMOC emissions threshold for collection and control system exemption. The NMOC emissions are calculated to be less than 50 megagrams per year and therefore, the landfill is not required to install a landfill gas collection and control system at this time.

Subsection B. Summary of Emissions Units.

EU No.	Brief Description
Regulated Emissions Units	
001	Municipal Solid Waste Landfill
002	(3) Emergency Generators

Subsection C. Applicable Regulations.

Based on the **initial** Title V air operation permit application received April 20, 2012, this facility is not a major source of hazardous air pollutants (HAP).

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

Regulation	EU Nos.
40 CFR 60, Subpart A, NSPS General Provisions	-All
40 CFR 60, Subpart WWW, NSPS Municipal Solid Waste Landfills	-001
40 CFR 60, Subpart IIII, Stationary Compression Ignition Internal Combustion Engines.	-002
40 CFR 63, Subpart A, NESHAP General Provisions	-All
40 CFR 63, Subpart ZZZZ, NESHAP Stationary Reciprocating Internal Combustion Engines and Rule 62-4.070 and 62-204.800(11)(b)82., F.A.C.	-002
State Rule Citations: 62-4.070, 62-210.200, 62-213.420, 62-296.320, 62-297.310	-All

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.]

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. and 4., 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. Monitor established vegetation growth on the cap;
b. If a high volume of traffic is expected, the County will spray roads with water to prevent dust from escaping; and
c. Any onsite construction projects will utilize best management practices in preventing fugitive emissions.

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

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 1st 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 1st 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]

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

EU No.	Brief Description
-001	This Class I Landfill has a design capacity equal to or greater than 2.5 million megagrams by mass or 2.5 million cubic meters by volume. The landfill was constructed in three (3) phases. Phase III has two different cells – MSW and Ash Cell (each cell is Class I landfill) as follows:

Landfill	Capacity (CY)	Capacity (MG)	Comments
Phase I	--	1,878,039	The landfill ceased operations in 1994 and was closed in 1995 with a LLDPE liner system.
Phase II	876,000	993,367	Tonnage is based on 2500 pcy density (majority ash). Out of this tonnage, only non-ash waste, i.e., 415,844 MG is counted towards Title V permit emission calculations. This landfill started to accept waste in 1991, has reached capacity and will be closed soon.
Phase III (Ash Cell)	243,000	275,557	Capacity in MG based on 2500 pcy (majority of waste disposed is expected to be ash). It started to accept waste in 2011. However, please note that any ash waste is not counted towards emission calculations.
Phase III (MSW Cell)	1,500,000	850,485	Capacity in MG based on 1250 pcy (expected to receive only MSW waste). No waste has been disposed into this landfill to date.

The landfill is not a major source of HAPs. The landfill does not contain a bioreactor. No leachate has been added to Phases I and II. However, leachate can be re-circulated in Phase III as it is permitted for liquids addition. However, volumetric moisture content of the waste will always be below 33% and therefore, will not meet bioreactor definition.

Currently, the landfill is required to submit an NMOC emissions rate report **annually** to demonstrate compliance with NMOC emissions threshold for collection and control system exemption. The NMOC emissions are calculated to be less than 50 megagrams per year and therefore, the landfill is not required to install a landfill gas collection and control system at this time.

Design capacity means the maximum amount of solid waste a landfill can accept, as indicated in terms of volume or mass in the most recent permit issued by the State, local, or Tribal agency responsible for regulating the landfill, plus any in-place waste not accounted for in the most recent permit. If the owner or operator chooses to convert the design capacity from volume to mass or from mass to volume to demonstrate its design capacity is less than 2.5 million megagrams or 2.5 million cubic meters, the calculation must include a site-specific density, which must be recalculated annually.

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.]

Emission Limitations and Standards

A.2. 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, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). [Rule 62-296.320(4)(b)1., F.A.C.]

Recordkeeping and Reporting Requirements

{Permitting Note: The attached Tables 2 and 3, Summary of Compliance Requirements for Municipal Solid Waste Landfills, summarize information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

A.3. Annual NMOC Emissions Rate Report. The permittee shall submit an annual NMOC emission rate report, except as provided in Specific Condition A.4. of this permit. The Department may request such additional information as may be necessary to verify the reported NMOC emission rate. The NMOC emission rate report shall include the following:

a. The NMOC emission rate shall be calculated using the formula and procedures provided in §60.754 (a)(1)(i) and (ii) of 40 CFR 60, Subpart WWW; and

b. All data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions.

c. 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.

[40 CFR 60, Subpart WWW, §60.752(b)(1) and §60.757(b) (1) and (2)]

A.4. Annual NMOC Emissions Rate Report. 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 5-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 5 years for which an NMOC emission rate is estimated. All data and calculations upon which this estimate is

based shall be provided to the Department. This estimate shall be revised at least once every 5 years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the 5-year estimate, a revised 5-year estimate shall be submitted to the Administrator. The revised estimate shall cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate. [40CFR60, Subpart WWW, § 60.757(b)(1)(ii)]

A.5. Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

Other Requirements

A.6. 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.]

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

EU No.	Brief Description			
	Equipment	**Description**	**Heat Input (MMBtu/hr)**	**Horsepower (HP)**
-002	Emergency Generator No. 1	GEN-1	0.9387	134
	Emergency Generator No. 2	GEN-2	0.5632	80
	Emergency Generator No. 3	GEN-3	0.5632	80

Essential Potential to Emit (PTE) Parameters

B.1. Hours of Operation

a. *Emergency Situations*. There is no time limit on the use of emergency stationary RICE in emergency situations. [40 CFR 60.4211(e)]
b. *Maintenance and Testing.* Each RICE is authorized to operate for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. [40 CFR 60.4211(e)]
c. *Other Situations*. Each RICE cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR 60.4219]

Federal Requirements

B.2. Federal Rule 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 IIII-Stationary Compression Ignition Internal Combustion Engines; 40 CFR 63, Subpart A – General Provisions and 40 CFR 63, Subpart ZZZZ – Reciprocating Internal Combustion Engines (attached and part of this permit).

a. Change oil and filter every 500 hours of operation or annually, whichever comes first; and

b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and

c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

[Rule 62-213.440, F.A.C.; 40 CFR 63 Subpart ZZZZ (Table 2c)]

Records

B.3. Monthly Recordkeeping Requirements: In order to demonstrate compliance with Specific Condition No. **B.1.**; the permittee shall maintain a log at the facility for a period of at least 5 years from the date the data is recorded and made available to the Department upon request. The log shall contain the following:

a. Facility Name, Facility ID No. (i.e., 0694864);

b. Month and year of record;

c. Total hours of operation **(each emergency generator)** for a consecutive 12-month period. Additionally, indicate the purpose of the operational hours (maintenance checks, readiness testing, or emergency situation); and

d. Oil and filter changes; air cleaner inspections; hose and belt inspections. If there are no equipment inspections for the month, indicate "no equipment inspections" in the monthly log.

The monthly logs shall be completed by the end of the following month.

Note: A consecutive 12 months total is equal to the total for the month in question plus the totals for the eleven months previous to the month in question. A consecutive 12-months total treats each month of the year as the end of a 12-months period. A 12-months total is not a year-to-date total. Facilities or emission units that have not been operating for 12 months should retain 12 months totals using whatever number of months of data are available until such a time as a consecutive 12 months total can be maintained each month.

[Rule 62-4.070(3), F.A.C.]

SECTION IV. APPENDICES.

The Following Appendices Are Enforceable Parts of This Permit:

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