TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION

APPLICANT

Lake County Board of County Commissioners
P.O. Box 7800
Tavares, Florida 32778-7800

Lake County Central Solid Waste Management Facility

Facility ID No. 0694864

PROJECT

Project No. 0694864-001-AV
Application for **Initial** Title V Air Operation Permit
Project Name: Initial Title V Air Operation Permit

COUNTY

Lake County, Florida

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Air Resource Management
Central District Office
3319 Maguire Blvd., Ste. 232, Orlando, FL 32803-3767

September 19, 2012

Prepared by Natrevia Gradney-Mitchell, E.I.

GENERAL PROJECT INFORMATION

Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control – General Provisions); 62-210 (Stationary Sources – General Requirements); 62-212 (Stationary Sources – Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources - Emission Standards); and 62-297 (Stationary Sources – Emissions Monitoring). Specifically, air construction permits are required pursuant to Rules 62-4, 62-210 and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations on a quarterly basis in Rule 62-204.800, F.A.C.

Glossary of Common Terms

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of this permit.

I. Project Description:

A. Applicant:

Mr. Gary Debo, Operations Compliance Coordinator
Lake County Board of County Commissioners (BOCC)
P.O. Box 7800
Tavares, Florida 32778-7800

B. Professional Engineer:

Mr. Clifford Koenig, P.E.
HDR Engineering, Inc.
200 West Forsyth Street, Suite 800
Jacksonville, Florida 32202

C. Project Location:
Lake County Central Solid Waste Management Facility (SWMF)
13130 County Landfill Road
Tavares, Florida 32778

D. Project Summary:

This project is the **Initial** Title V Air Operation Permit for a new municipal solid waste (MSW) landfill in Lake County, Tavares, Florida, as further described in the permit.

E. Application Information:

Application Received on: 04/20/2012
Additional Information Requested on: 05/15/2012
Additional Information Received on: 05/17/2012
Application Complete: 05/23/2012

II. PSD Applicability for Project

Total project emissions will not exceed the PSD significant emissions rates; therefore, the project **is not subject** to PSD preconstruction review.

III. Rule Applicability

This project is subject to the preconstruction review requirements of Chapter 403, Florida Statutes and Chapters 62-204 through 62-297, Florida Administrative Code (F.A.C.), as indicated below.

Subject to:	Y/N	Comments
Rule 62-210.300, F.A.C. – Stationary Source General Requirements	Y	Not exempt from permitting requirements.
Rule 62-212.400, F.A.C. - Prevention of Significant Deterioration	N	Facility is not a PSD major source.
Rule 62-296.320(4), F.A.C. - General Particulate Emission Limiting Standards	Y	Fugitive landfill emissions are a source of unconfined particulate matter emissions.
Rules 62-296.320(1) and (2), F.A.C. - General Pollutant Emission Limiting Standards (VOCs and Odor)	Y	Fugitive landfill emissions are a source of VOC and odors.
Rule 62-296.400, F.A.C. - Stationary Source Emission Standards	N	There is no applicable source category.
Rule 62-296.500, F.A.C. - Reasonably Available Control Technology (VOC)	N	Lake County is an attainment area for ozone.
Rule 62-296.700, F.A.C. - Reasonably Available Control Technology (PM)	N	There is no applicable source category.
Rule 62-204.800, F.A.C. - Standards of Performance for New Stationary Sources (NSPS– 40 CFR 60)	Y	EU No. 001 is subject to 40 CFR 60, Subpart A and 40 CFR 60, Subpart WWW.
Rule 62-204.800, F.A.C. - Standards of	Y	EU No. 002 is subject to 40 CFR 60,

Subject to:	Y/N	Comments
Performance for New Stationary Sources (NSPS– 40 CFR 60)		Subpart A and 40 CFR 60, Subpart IIII-Stationary Compression Ignition Internal Combustion Engines.
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants (NESHAPS – 40 CFR 61)	N	There is no applicable source category.
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants for Source Categories a.k.a. MACT (NESHAPS –40 CFR 63)	Y	EU No. 001 is subject to 40 CFR 63, Subpart A and 40 CFR 63, Subpart ZZZZ.
Chapter 62-213, F.A.C. - Operation Permits for Major Sources of Air Pollution	Y	Facility is a Title V major source because the designed capacity exceeds 2.5 million mega grams.
Rule 62-297.310, F.A.C. - General Compliance Test Requirements, F.A.C.	N	No annual testing required.

IV. Summary of Emissions

Pollutant	EU No. and Brief Description	Potential Emissions (tpy)	Allowable Emissions (tpy)
NMOC as hexane*	001- MSW Landfill	**1.56**	
VOC*	001- MSW Landfill	0.61	
	002- (3) Emergency Generators	0.19	
	Vehicle Refueling and (2) Fuel Storage Tanks **(Insignificant-Appendix I)**	2.97	
	Total	**3.77**	
PM**	002- (3) Emergency Generators	**0.16**	
NOx**	002- (3) Emergency Generators	**2.29**	
SO_2**	002- (3) Emergency Generators	**0.15**	
CO**	002- (3) Emergency Generators	**0.49**	
CO_2**	002- (3) Emergency Generators	**84.82**	
Total HAP*	001- MSW Landfill	3.57	
	002- (3) Emergency Generators	0.002**	
	Remediation Activities **(Insignificant-Appendix I)**	0.22	
	Total	**3.79**	

** Calculation from LandGEM 3.02 Model and based on testing in Jan-Feb 2012 as it represents the maximum annual emissions until 2017.*

*** Calculation based on 500 operational hours/year permitted limitation; maximum process rate of 0.9387 MMBtu/hr for emergency generator no. 1 and 0.5632 MMBtu/hr for emergency generator nos. 2 and 3.*

V. Federal NSPS and/or NESHAP Provisions

A. NSPS: The facility does operate units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60.

1. 40 CFR 60, Subpart A – General Provisions;
2. 40 CFR 60, Subpart WWW - Standards of Performance for Municipal Solid Waste Landfills; and
3. 40 CFR 60, Subpart IIII- Stationary Compression Ignition Internal Combustion Engines.

B. NESHAP: The facility does operate units subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) of 40 CFR 63.

1. 40 CFR 63, Subpart A – General Provisions; and
2. 40 CFR 63, Subpart ZZZZ - Reciprocating Internal Combustion Engines.

VI. Conclusions

The emission limits proposed by the applicant will meet all of the requirements of Chapters 62-204 through 297, F.A.C.

The General and Specific Conditions listed in the proposed permit (attached) will assure compliance with all the applicable requirements of Chapters 62-204 through 297, F.A.C.

VII. Preliminary Determination

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the draft permit. Additional details of this analysis may be obtained by contacting the project engineer at the Florida Department of Environmental Protection Air Resource Management, Central District, 3319 Maguire Blvd., Ste. 232, Orlando, FL 32803-3767.

Pursuant to Section 403.087, Florida Statutes and Section 62-4.070, Florida Administrative Code, the Department hereby gives notice of its intent to issue a permit to construct the aforementioned air pollution source in accordance with the draft permit and its conditions as stipulated (see attached).