



**TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION**

APPLICANT

Indian River County Solid Waste Disposal District
Indian River County Landfill
1325 74th Avenue, S.W.
Vero Beach, FL 32968

Indian River County Landfill
Facility ID No. 0610015

PROJECT

Project No. 0610015-004-AV
Application for Title V Air Operation Permit
Project Name: Title V Renewal

COUNTY

Indian River County, Florida

PERMITTING AUTHORITY

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

May 16, 2012

Prepared by Jeffrey Rustin, P.E.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

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. Himanshu H. Mehta, P.E., Managing Director
Indian River County, Solid Waste Disposal District
1325 74th Avenue, SW
Vero Beach, FL 32968

B. Professional Engineer:

Mr. Kwasi Badu-Tweneboah, PhD., P.E.
Geosyntec Consultants, Inc.
1200 Riverplace Blvd.
Jacksonville, Florida 32207

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

C. Project Location:

1325 74th Avenue, SW
Vero Beach, FL 32968

D. Project Summary:

The project is a Title V Air Operation Permit renewal for a municipal solid waste facility.

E. Application Information:

Application Received on: January 4, 2012

Additional Information Requested on: February 20, 2012

Additional Information Received and Application Complete on: February 22, 2012

II. Rule Applicability

Subject to:	Y/N	Comments
Rule 62-296.320(4), F.A.C. - General Particulate Emission Limiting Standards	Y	Facility is 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	Facility is a source of VOC and odors.
Rule 62-296.500, F.A.C. - Reasonably Available Control Technology (VOC)	N	Indian River County is an attainment area for ozone.
Rule 62-204.800, F.A.C. - Standards of Performance for New Stationary Sources (NSPS)	Y	Facility is subject to 40 CFR 60, Subpart A- General Provisions and 40 CFR 60, Subpart WWW- Standards of Performance for Municipal Solid Waste Landfills. Emergency standby generator subject to 40 CFR 60, Subpart IIII.
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants (NESHAPS - 40 CFR 61)	N	No applicable 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	Facility is subject to 40 CFR 63, Subpart A- General Provisions and 40 CFR 63, Subpart AAAA- National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Facilities. Emergency standby generator subject to 40 CFR 63, Subpart ZZZZ.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Subject to:	Y/N	Comments
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.	Y	Annual Compliance Testing (visible emission) for flare.

IV. Summary of Emissions

Pollutant	EU No. and brief description	Potential Emissions (tpy)	Allowable Emissions (tpy)
NMOC (approximately 85 percent is considered to be volatile organic compound.)	Facility	13.55 to 50.31	55.1*
VE	Facility		< 20 percent opacity

* If emissions reach this level, the landfill is required to install LGCCS. The landfill has voluntarily installed a LGCCS even though emissions have not reached this level.

V. Federal NSPS and/or NESHAP Provisions

- A. 40 CFR 60, Subpart A – General Provisions;
- B. 40 CFR 60 Subpart WWW – Standards of Performance for Municipal Solid Waste Landfills;
- C. 40 CFR 60, Subpart IIII - Standards of Performance for Compression Ignition Internal Combustion Engines
- D. 40 CFR 63, Subpart A – General Provisions;
- E. 40 CFR 63 Subpart AAAA – National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Facilities; and
- F. 40 CFR 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants: Stationary 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.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

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 operate the aforementioned air pollution source in accordance with the draft permit and its conditions as stipulated (see attached).