Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

Florida Department of Environmental Protection

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Electronically Sent- Received Receipt Requested
lmarion@co.volusia.fl.us

Mr. Leonard Marion, Director
Volusia County Solid Waste Services Division
3151 New York Avenue
DeLand, Florida 32724

Re: **Revised** Permit No. 1270117-006-AV and 1270117-007-AC
Tomoka Farms Road Landfill
Title V Air Operation Permit Renewal and Revision and an Air Construction Permit

Dear Mr. Leonard Marion:

Enclosed is the **revised** draft permit package to renew and revise the Title V air operation permit and to issue an air construction permit for the Tomoka Farms Road Landfill. This facility is located in Volusia County at 1990 Tomoka Farms Rd., Port Orange, FL.. The permit package includes the following documents:

- The Statement of Basis, which summarizes the facility, the equipment, the primary rule applicability, and the changes since the last Title V renewal.
- The draft Title V air operation permit renewal and revision, which includes the specific permit conditions that regulate the emissions units covered by the proposed projects.
- The draft air construction permit, which removes a condition and removes the enclosed flare.
- The Written Notice of Intent to Issue Air Permit provides important information regarding: the Permitting Authority's intent to issue two air permitsfor the proposed projects; the requirements for publishing a Public Notice of the Permitting Authority's intent to issue an air permit; the procedures for submitting comments on the draft permit; the process for filing a petition for an administrative hearing; and the availability of mediation.
- The Public Notice of Intent to Issue Air Permits is the actual notice that you must have published in the legal advertisement section of a newspaper of general circulation in the area affected by this project. The Public Notice of Intent to Issue Air Permit must be published as soon as possible and the proof of publication must be provided to the Department within seven days of the date of publication.

If you have any questions, please contact the Project Engineer, Mr. Jeff Rustin, P.E., by telephone at 407-893-3335, or by email at Jeff.Rustin@dep.state.fl.us.

Sincerely,

Caroline D. Shine — 4/14/11

Caroline D. Shine
District Air Program Administrator

Date

Enclosures
CDS/jr

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMITS (REVISED)

In the Matter of an
Application for Title V Air Operation Permit by:

Volusia County Solid Waste Services Division
3151 New York Avenue
DeLand, Florida 32724

Responsible Official:

Mr. Leonard Marion, Director

Revised Permit No. 1270117-007-AC and
1270117-006-AV
Facility ID No. 1270117
Tomoka Farms Road Landfill
Title V Air Operation Permit Renewal and
Revision and an Air Construction Permit
Volusia County, Florida

Facility Location: The applicant operates the Tomoka Farms Road Landfill, which is located in Volusia County at 1990 Tomoka Farms Rd., Port Orange, Florida.

Project: The applicant applied on July 22, 2010 to the Department for a Title V air operation permit renewal and revision and for an air construction permit. This is a renewal and a revision of Title V air operation permit No. 1270117-005-AV. The existing facility consists of a municipal solid waste disposal facility (landfill) with an active gas collection system. The collection system terminates in a candlestick flare destructive system or Generator Set of 4 Catepillar 3516 SITA engines. There is an emergency generator for the flare at the facility. It is a compression ignition engine (model year 2000) that burns only diesel fuel. The revision is to incorporate the terms and conditions of draft air construction permit No. 1270117-007-AC, which will remove previous permit condition No. A8 from the Title V permit and will remove the enclosed flare from the emission units as it is being decommissioned.

Permitting Authority: Applications for Title V air operation permits and air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, 62-213 of the Florida Administrative Code (F.A.C.). The proposed projects are not exempt from air permitting requirements and a Title V air operation permit is required to operate the facility. The Department of Environmental Protection's Air Resource Section in the Central District Office is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical address is: 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767. The Permitting Authority's mailing address is: 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767. The Permitting Authority's telephone number is 407/893-3334.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at the address indicated above for the Permitting Authority. The complete project file includes the draft permit, the statement of basis, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may view the draft permit by visiting the following website: http://www.dep.state.fl.us/air/emission/apds/default.asp and entering the permit number shown above. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address or phone number listed above.

Notice of Intent to Issue Permit: The Permitting Authority gives notice of its intent to issue a draft Title V air operation permit renewal and revision to the applicant for the project described above. The applicant has provided reasonable assurance that continued operation of the existing equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a proposed permit and subsequent final

permit in accordance with the conditions of the draft permit unless a response received in accordance with the following procedures results in a different decision or a significant change of terms or conditions.

Public Notice: Pursuant to Section 403.815, F.S. and Rules 62-110.106 and 62-210.350, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Permit (Public Notice). The Public Notice shall be published one time only as soon as possible in the legal advertisement section of a newspaper of general circulation in the area affected by this project. The newspaper used must meet the requirements of Sections 50.011 and 50.031, F.S. in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Permitting Authority at the above address or phone number. Pursuant to Rule 62-110.106(5) and (9), F.A.C., the applicant shall provide proof of publication to the Permitting Authority at the above address within 7 days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rule 62-110.106(11), F.A.C.

Comments: The Permitting Authority will accept written comments concerning the draft Title V air operation permit for a period of 30 days from the date of publication of the Public Notice. Written comments must be received by the close of business (5:00 p.m.), on or before the end of this 30-day period by the Permitting Authority at the above address. As part of his or her comments, any person may also request that the Permitting Authority hold a public meeting on this permitting action. If the Permitting Authority determines there is sufficient interest for a public meeting, it will publish notice of the time, date, and location in the Florida Administrative Weekly (FAW). If a public meeting is requested within the 30-day comment period and conducted by the Permitting Authority, any oral and written comments received during the public meeting will also be considered by the Permitting Authority. If timely received written comments or comments received at a public meeting result in a significant change to the draft permit, the Permitting Authority shall issue a revised draft permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection. For additional information, contact the Permitting Authority at the above address or phone number.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this Written Notice of Intent to Issue Air Permit. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the attached Public Notice or within 14 days of receipt of this Written Notice of Intent to Issue Air Permit, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by

the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Written Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available in this proceeding.

Objections: Finally, pursuant to 42 United States Code (U.S.C.) Section 7661d(b)(2), any person may petition the Administrator of the EPA within 60 days of the expiration of the Administrator's 45-day review period as established at 42 U.S.C. Section 7661d(b)(1), to object to the issuance of any Title V air operation permit. Any petition shall be based only on objections to the Permit that were raised with reasonable specificity during the 30-day public comment period provided in the Public Notice, unless the petitioner demonstrates to the Administrator of the EPA that it was impracticable to raise such objections within the comment period or unless the grounds for such objection arose after the comment period. Filing of a petition with the Administrator of the EPA does not stay the effective date of any permit properly issued pursuant to the provisions of Chapter 62-213, F.A.C. Petitions filed with the Administrator of EPA must meet the requirements of 42 U.S.C. Section 7661d(b)(2) and must be filed with the Administrator of the EPA at: U.S. EPA, 401 M Street, S.W., Washington, D.C. 20460. For more information regarding EPA review and objections, visit EPA's Region 4 web site at http://www.epa.gov/region4/air/permits/Florida.htm .

Executed in Orlando, Florida.

Caroline D.Shine — 4/14/11

Caroline D.Shine
District Air Program Administrator

Date

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this **Revised** Written Notice of Intent to Issue Title V Air Operation Permit and Construction Permit (including the **Revised** Public Notice, the **Revised** Statement of Basis, and the **Revised** Draft Permits), or a link to these documents available electronically on a publicly accessible server, was sent by electronic mail with received receipt requested before the close of business on 4/14/11 to the persons listed below.

Mr. Leonard Marion, Director, Volusia County Solid Waste Services Division: lmarion@co.volusia.fl.us
Mr. Carlo Lebron, P.E., VP and Project Manager, HDR Engineering, Inc.: carlo.lebron@hdrinc.com
Ms. Teri Liermann, EIT, Project Designer, HDR Engineering, Inc.: theresa.liermann@hdrinc.com
Ms. Jennifer Stirk, Environmental Specialist, Volusia County Solid Waste Services Division: JStirk@co.volusia.fl.us
Ms. Ana Oquendo, EPA Region 4: oquendo.ana@epamail.epa.gov
Ms. Barbara Friday, DEP BAR: barbara.friday@dep.state.fl.us (for posting with U.S. EPA, Region 4)

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.

(Clerk) 4/14/11 (Date)

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMITS (REVISED)

Florida Department of Environmental Protection
Central District Office
Revised Draft Permit No. 1270117-007-AC
Revised Draft Permit No. 1170117-006-AV
Volusia County Solid Waste Services Division, Tomoka Farms Road Landfill
Volusia County, Florida

Applicant: The applicant for the two projects is Volusia County Solid Waste Services Division. The applicant's responsible official and mailing address are:

Mr. Leonard Marion, Director
Volusia County Solid Waste Services Division
3151 New York Avenue
DeLand, Florida 32724

Facility Location: The applicant operates the Tomoka Farms Road Landfill, which is located in Volusia County at 1990 Tomoka Farms Rd., Port Orange, Florida.

Project: The applicant applied on July 22, 2010 to the Department for a Title V air operation permit renewal and revision and for an air construction permit. This is a renewal and a revision of Title V air operation permit No. 1270117-005-AV. The existing facility consists of a municipal solid waste disposal facility (landfill) with an active gas collection system. The collection system terminates in a candlestick flare destructive system or Generator Set of 4 Catepillar 3516 SITA engines. There is an emergency generator for the flare at the facility. It is a compression ignition engine (model year 2000) that burns only diesel fuel. The revision is to incorporate the terms and conditions of draft air construction permit No. 1270117-007-AC, which will remove previous permit condition No. A8 from the Title V permit and will remove the enclosed flare from the emission units as it is being decommissioned.

Permitting Authority: Applications for Title V air operation permits and air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, 62-213 of the Florida Administrative Code (F.A.C.). The proposed projects are not exempt from air permitting requirements and a Title V air operation permit is required to operate the facility. The Department of Environmental Protection's Air Resource Section in the Central District Office is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical address is: 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767. The Permitting Authority's mailing address is: 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767. The Permitting Authority's telephone number is 407/893-3334.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at the address indicated above for the Permitting Authority. The complete project file includes the draft permit, the statement of basis, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may view the draft permit by visiting the following website: http://www.dep.state.fl.us/air/emission/apds/default.asp and entering the permit number shown above. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address or phone number listed above.

Notice of Intent to Issue Permit: The Permitting Authority gives notice of its intent to issue a draft Title V air operation permit renewal and revision; and an air construction permit to the applicant for the project described above. The applicant has provided reasonable assurance that continued operation of the existing equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a proposed

permit and subsequent final permit in accordance with the conditions of the draft permit unless a response received in accordance with the following procedures results in a different decision or a significant change of terms or conditions.

Comments: The Permitting Authority will accept written comments concerning the draft air construction permit for a period of 14 days from the date of publication of the Public Notice. Written comments must be received by the close of business (5:00 p.m.), on or before the end of this 14-day period by the Permitting Authority at the above address. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in this draft air construction permit, the permitting authority shall issue a revised dradt air construction permit and require, if applicable, another Public Notice.

The Permitting Authority will accept written comments concerning the draft Title V air operation permit for a period of 30 days from the date of publication of the Public Notice. Written comments must be received by the close of business (5:00 p.m.), on or before the end of this 30-day period by the Permitting Authority at the above address. As part of his or her comments, any person may also request that the Permitting Authority hold a public meeting on this permitting action. If the Permitting Authority determines there is sufficient interest for a public meeting, it will publish notice of the time, date, and location in the Florida Administrative Weekly (FAW). If a public meeting is requested within the 30-day comment period and conducted by the Permitting Authority, any oral and written comments received during the public meeting will also be considered by the Permitting Authority. If timely received written comments or comments received at a public meeting result in a significant change to the draft permit, the Permitting Authority shall issue a revised draft permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection. For additional information, contact the Permitting Authority at the above address or phone number.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this Written Notice of Intent to Issue Air Permit. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the attached Public Notice or within 14 days of receipt of this Written Notice of Intent to Issue Air Permit, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address and telephone number of the petitioner; the name address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial rights will be affected by the agency determination; (c) A statement of when and how the petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to

take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Public Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available for this proceeding.

Objections: Finally, pursuant to 42 United States Code (U.S.C.) Section 7661d(b)(2), any person may petition the Administrator of the EPA within 60 days of the expiration of the Administrator's 45-day review period as established at 42 U.S.C. Section 7661d(b)(1), to object to the issuance of any Title V air operation permit. Any petition shall be based only on objections to the Permit that were raised with reasonable specificity during the 30-day public comment period provided in the Public Notice, unless the petitioner demonstrates to the Administrator of the EPA that it was impracticable to raise such objections within the comment period or unless the grounds for such objection arose after the comment period. Filing of a petition with the Administrator of the EPA does not stay the effective date of any permit properly issued pursuant to the provisions of Chapter 62-213, F.A.C. Petitions filed with the Administrator of EPA must meet the requirements of 42 U.S.C. Section 7661d(b)(2) and must be filed with the Administrator of the EPA at: U.S. EPA, 401 M Street, S.W., Washington, D.C. 20460. For more information regarding EPA review and objections, visit EPA's Region 4 web site at http://www.epa.gov/region4/air/permits/Florida.htm.

STATEMENT OF BASIS

Title V Air Operation Permit Renewal and Revision
Permit No. 1270117-006-AV

APPLICANT

The applicant for this project is Volusia County Solid Waste Services Department. The applicant's responsible official and mailing address are:

Mr. Leonard Marion, Director
Volusia County Solid Waste Services Department
3151 New York Avenue
DeLand, Florida 32724

FACILITY DESCRIPTION

The applicant operates the Tomoka Farms Road Landfill, which is located at 1990 Tomoka Farms Rd. in Port Orange, Florida.

This facility is a municipal solid waste disposal facility (landfill) with an active gas collection system. The collection system terminates in a candlestick flare destruction device (utility flare) or generator set of 4 Caterpillar 3516 SITA engines.

EU 001 is subject to the following: 40 CFR Part 60, Subparts A (General Provisions) and WWW (Standards of Performance for Municipal Solid Waste Landfills); 40 CFR Part 63, Subparts A (General Provisions) and AAAA (National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills); with the exception of the candlestick flare control system, which shall have no visible emissions per 40 CFR Part 60.18(c)(1), The facility is subject to the General Visible Emissions (VE) limit of less than 20 percent per Rule 62-296.320(4)(b)1., F.A.C., VE testing of the candlestick flare is required annually; the General Volatile Organic Compound (VOC) standard per Rule 62-296.320(1)(a), F.A.C.; and the Objectionable Odor Rule per Rule 62-296.320(2), F.A.C.

EU 002 (generator set of 4 Caterpillar 3516 engines) is subject to 40 CFR 63, Subpart ZZZZ.

PROJECT DESCRIPTION

The purpose of this permitting project is to renew and revise the existing Title V permit(s) to incorporate the terms and conditions of Air Construction Permit 1270117-007-AC for the above referenced facility.

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Application(s) Received on: July 22, 2010
Additional Information Requested (No. 1) on: 09/20/2010
Additional Information Received on: 10/21/2010
Additional Information Requested (No. 2) on: 11/18/2010
Additional Information Received on: 11/18/2010
Applications(s) Complete: 11/18/2010

PRIMARY REGULATORY REQUIREMENTS

Title III: The facility is not identified as a major source of hazardous air pollutants (HAP).

Title V: The facility is a Title V major source of air pollution in accordance with Chapter 62-213, Florida Administrative Code (F.A.C.).

PSD: The facility is not a Prevention of Significant Deterioration (PSD)-major source of air pollution in accordance with Rule 62-212.400, F.A.C.

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

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

CAIR: The facility is not subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, F.A.C.

CAM: Compliance Assurance Monitoring (CAM) does not apply to any of the units at the facility.

PROJECT REVIEW

This project incorporates the terms and conditions of Air Construction Permit 1270117-007-AC into the Title V air operation permit. The Air Construction Permit removes previous condition A8 and removes the enclosed flare as it is being decommissioned. Additionally, the Title V air operation Permit No. 1270117-006-AV is a renewal and revision of Permit No. 1270117-005-AV and the permit has been reformatted.

CONCLUSION

This project renews and revises Title V air operation permit No. 1270117-005-AV, which was issued on October 17, 2007. This Title V air operation permit renewal and revision is issued under the provisions of Chapter 403, Florida Statues (F.S.), and Chapters 62-4, 62-210 and 62-213, F.A.C.

TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION (REVISED)

APPLICANT

Volusia County Solid Waste Services Division
3151 New York Avenue
DeLand, Florida 32724

Tomoka Farms Road Landfill

Facility ID No. 1270117

PROJECT

Project No. 1270117-006-AV
Application for Title V Air Operation Permit
Project Name: Title V Air Operation Permit Renewal and Revision

COUNTY

Volusia County, Florida

PERMITTING AUTHORITY

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

February 14, 2011 and April 3 & 7, 2011

Prepared by Jeffrey Rustin, P.E.

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. Leonard Marion, Director
Volusia County Solid Waste Services Division
3151 New York Avenue
DeLand, Florida 32724

B. Professional Engineer:

Mr. Carlo Lebron, P.E., VP and Project Manager
HDR Engineering, Inc.
200 W Forsyth Road, Suite 800
Jacksonville, Florida 32202-4321

C. Project Location:

Tomoka Farms Road Landfill
1990 Tomoka Farms Road
Port Orange, Florida

D. Project Summary:

The applicant applied on July 22, 2010 to the Department for a Title V air operation permit renewal and revision. The existing facility consists of a municipal solid waste disposal facility (landfill) with an active gas collection system. The collection system terminates in a candlestick flare destructive system (utility flare) or Generator Set of 4 Caterpillar 3516 SITA engines. There is an emergency generator for the flare at the facility. It is a compression ignition engine (model year 2000) that burns only diesel fuel. The revision is to incorporate the terms and conditions of draft air construction permit No. 1270117-007-AC, which will remove previous permit condition A8 from the Title V permit and will remove the enclosed flare from the emission units as it is being decommissioned.

E. Application Information:

Application(s) Received on: July 22, 2010
Additional Information Requested (No. 1) on: 09/20/2010
Additional Information Received on: 10/21/2010
Additional Information Requested (No. 2) on: 11/18/2010
Additional Information Received on: 11/18/2010
Applications(s) Complete: 11/18/2010

II. PSD Applicability for Project

As provided in the application, the following table summarizes potential emissions and PSD applicability for the project.

Table A. Potential Emissions (Tons/Year) and PSD Applicability

Pollutant	Project Potential Emission (tpy)	Significant Emissions Rate (tpy)	Subject to PSD?
CO (project only)	0	100	No, Facility Wide total is less than 250 tpy.
NOx (project only)	0	40	No, Facility Wide total is less than 250 tpy.
SO_2 (project only)	0	40	No, Facility Wide total is less than 250 tpy.
PM-10 (project only)	0	15	No, Facility Wide total is less than 250 tpy.
VOC (project only)	0	40	No, Facility Wide total is less than 250 tpy.

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. - Project Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements, F.A.C.	Y	Not exempt from general 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	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 62-296.400, F.A.C. - Stationary Source Emission Standards	N	There is no applicable source category.

Subject to:	Y/N	Comments
Rule 62-296.500, F.A.C. - Reasonably Available Control Technology (VOC)	N	Volusia 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)	Y	EU No. 001 is subject to 40 CFR 60, Subpart A- General Provisions and 40 CFR 60, Subpart WWW- Standards of Performance for Municipal Solid Waste Landfills.
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants (NESHAPS – 40 CFR 61)	Y	40 CFR Part 61, Subpart M applies.
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- General Provisions and 40 CFR 63, Subpart AAAA- National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Facilities. EU No. 002 is subject to 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.
Rule 62-297.310, F.A.C. - General Compliance Test Requirements, F.A.C.	Y	EPA Method 22 testing is required for EU No. 001.

IV. Summary of Emissions

Pollutant	EU No. and brief description	Potential Emissions (tpy)	Allowable Emissions (tpy)
PM-10	**Total**	**9.19**	
VOC	**Total**	**0.94**	
NOx	**Total**	**107.59**	
SO2	**Total**	**27.42**	
CO	**Total**	**184.72**	
HAPs	**Total**	**4.09**	
NMOC	**Total**	**2.41**	
VE	001- Municipal Solid Waste Landfill with Utility Flare. Flare shall be designed for and operated with no visible emissions as determined by the methods specified in paragraph (f) of 40 CFR 60, Subpart A, Section 60.18, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.	100 % opacity	20% opacity limit for facility (including generator set of 4 Caterpillar 3516 SITA engines), except candlestick flare shall not exceed 0% opacity, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

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 63, Subpart A - General Provisions;
D. 40 CFR 63 Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Facilities; and
E. 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.

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).

TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION (REVISED)

APPLICANT

Volusia County Solid Waste Services Division
3151 New York Avenue
DeLand, Florida 32724

Tomoka Farms Road Landfill

Facility ID No. 1270117

PROJECT

Project No. 1270117-007-AC
Application for Air Construction Permit
Project Name: Remove Condition and Remove Enclosed Flare

COUNTY

Volusia County, Florida

PERMITTING AUTHORITY

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

February 14, 2011 and April 3 & 7, 2011

Prepared by Jeffrey Rustin, P.E.

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. Leonard Marion, Director
Volusia County Solid Waste Services Division
3151 New York Avenue
DeLand, Florida 32724

B. Professional Engineer:

Mr. Carlo Lebron, P.E., VP and Project Manager
HDR Engineering, Inc.
200 W Forsyth Road, Suite 800
Jacksonville, Florida 32202-4321

C. Project Location:

Tomoka Farms Road Landfill
1990 Tomoka Farms Road
Port Orange, Florida

D. Project Summary:

The applicant applied on July 22, 2010 to the Department for a Title V air operation permit renewal and revision. The existing facility consists of a municipal solid waste disposal facility (landfill) with an active gas collection system. The collection system terminates in a candlestick flare destructive system or Generator Set of 4 Caterpillar 3516 SITA engines. There is an emergency generator for the flare at the facility. It is a compression ignition engine (model year 2000) that burns only diesel fuel. The revision is to incorporate the terms and conditions of draft air construction permit No. 1270117-007-AC, which will remove previous permit condition A8 from the Title V permit and will remove the enclosed flare from the emission units as it is being decommissioned.

E. Application Information:

Application(s) Received on: July 22, 2010
Additional Information Requested (No. 1) on: 09/20/2010
Additional Information Received on: 10/21/2010
Additional Information Requested (No. 2) on: 11/18/2010
Additional Information Received on: 11/18/2010
Applications(s) Complete: 11/18/2010

II. PSD Applicability for Project

As provided in the application, the following table summarizes potential emissions and PSD applicability for the project.

Table A. Potential Emissions (Tons/Year) and PSD Applicability

Pollutant	Project Potential Emission (tpy)	Significant Emissions Rate (tpy)	Subject to PSD?
CO (project only)	0	100	No, Facility Wide total is less than 250 tpy.
NOx (project only)	0	40	No, Facility Wide total is less than 250 tpy.

SO_2 (project only)	0	40	No, Facility Wide total is less than 250 tpy.
PM-10 (project only)	0	15	No, Facility Wide total is less than 250 tpy.
VOC (project only)	0	40	No, Facility Wide total is less than 250 tpy.

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. - Project Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements, F.A.C.	Y	Not exempt from general 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	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 62-296.400, 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	Volusia 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)	Y	EU No. 001 is subject to 40 CFR 60, Subpart A- General Provisions and 40 CFR 60, Subpart WWW- Standards of Performance for Municipal Solid Waste Landfills.

Subject to:	Y/N	Comments
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants (NESHAPS - 40 CFR 61)	Y	40 CFR Part 61, Subpart M applies.
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- General Provisions and 40 CFR 63, Subpart AAAA- National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Facilities. EU No. 002 is subject to 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.
Rule 62-297.310, F.A.C. - General Compliance Test Requirements, F.A.C.	Y	EPA Method 22 testing is required for EU No. 001.

IV. Summary of Emissions

Pollutant	EU No. and brief description	Potential Emissions (tpy)	Allowable Emissions (tpy)
PM-10	**Total**	**9.19**	
VOC	**Total**	**0.94**	
NOx	**Total**	**107.59**	
SO2	**Total**	**27.42**	
CO	**Total**	**184.72**	
HAPs	**Total**	**4.09**	
NMOC	**Total**	**2.41**	
VE	001- Municipal Solid Waste Landfill with Utility Flare. Flare shall be designed for and operated with no visible emissions as determined by the methods specified in paragraph (f) of 40 CFR 60, Subpart A, Section 60.18, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.	100 % opacity	20% opacity limit for facility (including generator set of 4 Caterpillar 3516 SITA engines), except candlestick flare shall not exceed 0% opacity, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

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 63, Subpart A – General Provisions;
D. 40 CFR 63 Subpart AAAA – National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Facilities; and
E. 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.

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).

Volusia County Solid Waste Services Division
Tomoka Farms Road Landfill

Facility ID No. 1270117
Volusia County

Title V Air Operation Permit Renewal and Revision

Permit No. 1270117-006-AV
(Renewal and Revision of Title V Air Operation Permit No. 1270117-005-AV)

Permitting Authority:

State of Florida
Department of Environmental Protection
Air Resource Management, Central District

3319 Maguire Blvd., Suite 232
Orlando, Florida 32803-3767

Telephone: (407) 893-3333
Fax: (850) 412-0455

Compliance Authority:

State of Florida
Department of Environmental Protection
Air Resource Management, Central District

3319 Maguire Blvd., Suite 232
Orlando, Florida 32803-3767

Telephone: (407) 893-3333
Fax: (850) 412-0455

Title V Air Operation Permit Renewal and Revision

Permit No. 1270117-006-AV

Table of Contents

Section **Page Number**

I. Facility Information.
A. Facility Description. 2
B. Summary of Emissions Units. 2
C. Applicable Regulations. 2

II. Facility-wide Conditions. 3

III. Emissions Units and Conditions.
A. EU 001, Municipal Solid Waste Landfill with a Utility Flare 5
B. EU 002, Caterpillar Set – 4 Caterpillar 3516 SITA engines 9

IV. Appendices. 15
Appendix A, Glossary.
Appendix F – Alternate Operating Procedures
Appendix G – Alternate Operating Parameter Value for Specified Gas Extraction Wells
Appendix I – List of Insignificant Emission Units and/or Activities
Appendix ICE – Requirements for Internal Combustion Engines
Appendix NSPS and NESHAP COMBINED, Subpart A – General Provisions
Appendix NSPS and NESHAP COMBINED, Subpart WWW and Subpart AAAA
Appendix ZZZZ – 40 CFR 63, Subpart ZZZZ
Appendix RR, Facility-wide Reporting Requirements.
Appendix TR, Facility-wide Testing Requirements. {Permitting Note: Deleted Condition TR.2.}
Appendix TV, Title V General Conditions.

Referenced Attachments. ..... At End
Figure 1, Summary Report-Gaseous and Opacity Excess Emission and Monitoring System Performance (40 CFR 60, July, 1996).
Table H, Permit History.
Table 1, Summary of Monitoring Requirements for MSW Landfills
Table 2, Summary of Recordkeeping Requirements for MSW Landfills
Table 3, Summary of Reporting Requirements for MSW Landfills

REVISED DRAFT PERMIT

PERMITTEE:
Volusia County Solid Waste Services Division
3151 New York Avenue
DeLand, Florida 32724

Permit No. 1270117-006-AV
Tomoka Farms Road Landfill
Facility ID No. 1270117
Title V Air Operation Permit Renewal and Revision

The purpose of this permit is to renew and to revise the Title V air operation permit for the above referenced facility. The existing Tomoka Farms Road Landfill is located in Volusia County at 1990 Tomoka Farms Rd., Port Orange, Florida. UTM Coordinates are: Zone 17, 491.54 East and 3222.2 North. Latitude is: 29° 07' 41.78" North; and, Longitude is: 81° 05' 13.02" 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 PERMIT

Caroline D. Shine
District Air Program Administrator
Central District

CDS/jr

SECTION I. FACILITY INFORMATION.

Subsection A. Facility Description.

This facility consists of an active, Class I municipal solid waste disposal facility (landfill). The design capacity of the landfill is greater than 2.5 million megagrams by mass or 2.5 million cubic meters by volume. There is no bioreactor at the landfill. Non-methane organic compound (NMOC) emissions are calculated to be equal to or greater than 50 megagrams per year. Landfill gas emissions are collected and controlled by one utility flare or a generator set of 4 Catepillar 3516 SITA engines. Recent actions that have taken place or will take place soon include connection of a backup electrical source from an existing generator to the open flare, installation of a regulated pressure valve to improve flare and system performance, and decommissioning of the original enclosed flare.

Subsection B. Summary of Emissions Units.

EU No.	Brief Description
Regulated Emissions Units	
001	Municipal Solid Waste Landfill with one flare
002	Generator Set – 4 Catepillar 3516 SITA engines

Subsection C. Applicable Regulations.

Based on the Title V air operation permit renewal and revision application received on July 22, 2010, 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	001
40 CFR 60, Subpart WWW, NSPS Municipal Solid Waste Landfills	001
40 CFR 63, Subpart A, NESHAP General Provisions	001, 002
40 CFR 63, Subpart AAAA, NESHAP Municipal Solid Waste Facilities	001
40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines {Permitting Note: Even though the facility is **NOT** considered a major source of HAPs, it still meets the definition of an area source of HAPs.}	002

SECTION II. FACILITY-WIDE CONDITIONS.

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

[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]

FW10. Permit Renewal. At least 225 days prior to the expiration date of this permit, the permittee shall submit to the Permitting Authority four copies of the air permit application, DEP Form No. 62-210.900(1). **(See Attached Appendix TV, Specific Condition TV18)**
[Rules 62-4.090 and 62-213.420(1)(a)2., F.A.C.]

FW11. Monitoring Reports. The permittee shall submit reports of any required monitoring at least every six (6) months. All instances of deviations from permit requirements must be clearly identified in such reports.
[Rule 62-213.440(1)(b)3.a., F.A.C.]

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

EU No.	Brief Description
001	Municipal Solid Waste Landfill with one flare

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. 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.
[40 CFR 60.18(c)(1)]

Monitoring of Operations

A.3. Operational Monitoring. 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. Owners or operators of flares used to comply with the provisions of this subpart shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how owners or operators of flares shall monitor these control devices.
[40 CFR 60.18(b) through (f)]

Notification Requirements

A.4. Test Notification. The permittee shall notify the Compliance Authority, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the permittee.
[Rules 62-4.070(3) and 62-297.310(7)(a)9., F.A.C.]

Test Methods and Procedures

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: **Observation period is two (2) hours.**

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 60.8 and 62-297.400, 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.]

A.7. Annual Compliance Tests Required. During each federal fiscal year (October 1st to September 30th), EU 001 shall be tested to demonstrate compliance with the emissions standards for visible emissions specified in Specific Condition **A.2.**
[Rule 62-297.310(7), F.A.C.]

A.8. Specific Testing Requirements - Flare. All testing shall be conducted in accordance with the requirements in 40 CFR 60, Subpart A – General Provisions, § 60.18 General control device requirements. The requirements are listed below.

§ 60.18 General control device requirements.

(a) *Introduction.* This section contains requirements for control devices used to comply with applicable subparts of parts 60 and 61. The requirements are placed here for administrative convenience and only apply to facilities covered by subparts referring to this section.
(b) *Flares.* Paragraphs (c) through (f) apply to flares.
(c)(1) Flares shall be designed for and operated with no visible emissions as determined by the methods specified in paragraph (f), except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.
(2) Flares shall be operated with a flame present at all times, as determined by the methods specified in paragraph (f).
(3) An owner/operator has the choice of adhering to either the heat content specifications in paragraph (c)(3)(ii) of this section and the maximum tip velocity specifications in paragraph (c)(4) of this section, or adhering to the requirements in paragraph (c)(3)(i) of this section.
(i)(A) Flares shall be used that have a diameter of 3 inches or greater, are nonassisted, have a hydrogen content of 8.0 percent (by volume), or greater, and are designed for and operated with an exit velocity less than 37.2 m/sec (122 ft/sec) and less than the velocity, Vmax, as determined by the following equation:
Vmax=(XH2−K1)* K2
Where:
Vmax=Maximum permitted velocity, m/sec.
K1=Constant, 6.0 volume-percent hydrogen.
K2=Constant, 3.9(m/sec)/volume-percent hydrogen.
XH2=The volume-percent of hydrogen, on a wet basis, as calculated by using the American Society for Testing and Materials (ASTM) Method D1946-77. (Incorporated by reference as specified in § 60.17).
(B) The actual exit velocity of a flare shall be determined by the method specified in paragraph (f)(4) of this section.
(ii) Flares shall be used only with the net heating value of the gas being combusted being 11.2 MJ/scm (300 Btu/scf) or greater if the flare is steam-assisted or air-assisted; or with the net heating value of the gas being combusted being 7.45 MJ/scm (200 Btu/scf) or greater if the flare is nonassisted. The net heating value of the gas being combusted shall be determined by the methods specified in paragraph (f)(3) of this section.
(4)(i) Steam-assisted and nonassisted flares shall be designed for and operated with an exit velocity, as determined by the methods specified in paragraph (f)(4) of this section, less than 18.3 m/sec (60 ft/sec), except as provided in paragraphs (c)(4) (ii) and (iii) of this section.
(ii) Steam-assisted and nonassisted flares designed for and operated with an exit velocity, as determined by the methods specified in paragraph (f)(4), equal to or greater than 18.3 m/sec (60 ft/sec) but less than

122 m/sec (400 ft/sec) are allowed if the net heating value of the gas being combusted is greater than 37.3 MJ/scm (1,000 Btu/scf).
(iii) Steam-assisted and nonassisted flares designed for and operated with an exit velocity, as determined by the methods specified in paragraph (f)(4), less than the velocity, Vmax, as determined by the method specified in paragraph (f)(5), and less than 122 m/sec (400 ft/sec) are allowed.
(5) Air-assisted flares shall be designed and operated with an exit velocity less than the velocity, Vmax, as determined by the method specified in paragraph (f)(6).
(6) Flares used to comply with this section shall be steam-assisted, air-assisted, or nonassisted.
(d) Owners or operators of flares used to comply with the provisions of this subpart shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how owners or operators of flares shall monitor these control devices.

(e) Flares used to comply with provisions of this subpart shall be operated at all times when emissions may be vented to them.

(f)(1) Method 22 of appendix A to this part shall be used to determine the compliance of flares with the visible emission provisions of this subpart. The observation period is 2 hours and shall be used according to Method 22.
(2) The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.
(3) The net heating value of the gas being combusted in a flare shall be calculated using the following equation:

$$H_T = K \sum_{i=1}^{n} C_i H_i$$

Eq. 1

where:
HT=Net heating value of the sample, MJ/scm; where the net enthalpy per mole of offgas is based on combustion at 25 °C and 760 mm Hg, but the standard temperature for determining the volume corresponding to one mole is 20 °C;

$$K = \text{Constant}, \; 1.740 \times 10^{-7} \left(\frac{1}{ppm}\right) \left(\frac{g\ mole}{scm}\right) \left(\frac{MJ}{kcal}\right)$$

where the standard temperature for $\left(\frac{g\ mole}{scm}\right)$ is 20°C;

Eq. 2

Ci=Concentration of sample component i in ppm on a wet basis, as measured for organics by Reference Method 18 and measured for hydrogen and carbon monoxide by ASTM D1946-77 or 90 (Reapproved 1994) (Incorporated by reference as specified in § 60.17); and
Hi=Net heat of combustion of sample component i, kcal/g mole at 25 °>C and 760 mm Hg. The heats of combustion may be determined using ASTM D2382-76 or 88 or D4809-95 (incorporated by reference as specified in § 60.17) if published values are not available or cannot be calculated.
(4) The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip.
(5) The maximum permitted velocity, Vmax, for flares complying with paragraph (c)(4)(iii) shall be determined by the following equation. Log10 (Vmax)=(HT+28.8)/31.7

Vmax=Maximum permitted velocity, M/sec
28.8=Constant
31.7=Constant
HT=The net heating value as determined in paragraph (f)(3).
(6) The maximum permitted velocity, Vmax, for air-assisted flares shall be determined by the following equation. Vmax=8.706+0.7084 (HT)
Vmax=Maximum permitted velocity, m/sec
8.706=Constant
0.7084=Constant
HT=The net heating value as determined in paragraph (f)(3).

Recordkeeping and Reporting Requirements

A.9. The type of fuel and the heat input to this source must be entered on the visible emission test report. [Rule 62-4.070(3), F.A.C.]

A.10. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

Other Requirements

A.11. 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; 40 CFR 63, Subpart A – General Provisions and 40 CFR 63 Subpart AAAA – National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Facilities. The conditions are incorporated into this permit (attached and part of this permit).

{Permitting Note: The applicable general and specific requirements for both the NSPS and NESHAP referenced above, have been combined and attached as 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
002	Generator Set – 4 Catepillar 3516 SITA engines

Generator Set of 4 Catepillar 3516 SITA engines. Initial startup date was June 15, 1998. The 3516 engine is designed to reduce thermal NOx formation during combustion. The treatment system removes moisture and contaminants, maintains temperature and densities in a narrow range, and removes particulate matter (PM) in Landfill Gas (LFG). The engines are fired by landfill gas only. A butterfly valve will serve to channel the LFG to the flare should one of the engines malfunction.

Essential Potential to Emit (PTE) Parameters

B.1. Methods of Operation. Unless otherwise indicated, the operation of the Generator Set – 4 Catepillar 3516 SITA engines shall be in accordance with the capacities and specifications stated in permit applications submitted to the Department.
[Rule 62-4.070, F.A.C.]

B.2. Methods of Operation. Fuel fired in the Engine/Generator Sets is limited to LFG (landfill gas). The use of any other fuel will require a modification or amendment to a previous construction permit or a new construction permit.
[Rule 62-4.070, F.A.C.]

B.3. Hours of Operation. There is no limitation on the annual hours of operation (8,760 hours/year).
[Rule 62-210.200(PTE), F.A.C.]

B.4. Methods of Operation. Excess landfill gas 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.]

B.5. 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

B.6. Visible Emissions. Visible emissions from each source must comply with Rule 62-296.320(4)(b)1., F.A.C., and are limited to less than 20 percent opacity.

Notification Requirements

B.7. Test Notification: The permittee shall notify the Compliance Authority, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the permittee.
[Rules 62-4.070(3) and 62-297.310(7)(a)9., F.A.C.]

Test Methods and Procedures

B.8. Test Methods. Required tests shall be performed in accordance with the following reference method:

DEP Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary.

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 60.8 and 62-297.400, F.A.C.]

B.9. 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.10. Compliance Tests Required. EU 002 shall be tested to demonstrate compliance with the emissions standards for visible emissions specified in Specific Condition **B.6.** prior to permit expiration date. The test period shall be 30 minutes.
[Rules 62-297.310(4)(a)2. And 62-297.310(7)(a)4.a., F.A.C.]

Recordkeeping and Reporting Requirements

B.11. The type of fuel and the heat input to this source must be entered on the visible emission test report.
[Rule 62-4.070(3), F.A.C.]

B.12. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

Other Requirements

B.13 Federal Rule Requirements. In addition to the specific conditions listed above, the engines are subject to the applicable requirements contained in 40 CFR 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The conditions are incorporated into this permit (attached and part of this permit).
[Rule 62-213.440, F.A.C.]

{**Permitting Note:** Most of the following text is from 40 CFR 63, Subpart ZZZZ and shows the sections that are applicable for the LFG Engines:

LFG Engines

As of October 19, 2010 the engines will be subject to the following requirements:

- 40 CFR §63.6595(a)(1), August 20, 2010 revision: "If you have ... an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations ... no later than October 19, 2013.
- 40 CFR §63.6603(a), August 20, 2010 revision: "If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart and the operating limitations in Table 2b to this subpart which apply to you." Review of Table 2b indicates that it contains no operating limitations applicable to the LFG Engines and the following requirements of Item 11 from Table 2d apply:

  "You must meet the following requirement, except during periods of startup . . .

  a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first;
  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.

  During periods of startup you must . . .
  Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply."
- 40 CFR §63.6605(a): "You must be in compliance with the emission limitations ... in this subpart that apply to you at all times."
- 40 CFR §63.6605(b): "At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, 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 63.6612, August 20, 2010 revision: "If you own or operate ... an existing stationary RICE located at an area source of HAP emissions you are subject to the requirements of this section." Review of Tables 4 and 5 indicate that no initial performance test or other initial compliance determination is required for the LFG engines. Therefore, no action is needed in connection with this requirement.
- 40 CFR §63.6625(e), August 20, 2010 revision: "If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop 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: ...(6) An existing non-emergency, non-black start landfill or digester gas stationary RICE located at an area source of HAP emissions;"
- 40 CFR §63.6625(h), August 20, 2010 revision: "If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables ... 2d to this subpart apply." Review of Table 2d indicates that it does not impose any emission limits on the LFG Engines. Therefore, the only applicable portion of this requirement is to minimize idling and restrict startup time to no more than 30 minutes.
- 40 CFR §63.6625(j), August 20, 2010 revision: "If you own or operate a stationary SI engine that is subject to the work, operation or management practices ... in items ... 11 of Table 2d to this subpart, you have the

option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables ... 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table ... 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid 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 water content (by volume) is greater than 0.5. If all of these condemning limits are not 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 §63.6640(a): "You must demonstrate continuous compliance with each emission limitations ... in Tables ... 2d to this subpart that apply to you according to the methods specified in Table 6 to this subpart." The following requirements of Item 9 from Table 6 apply:
  "Complying with the requirement to . . . a. Work or Management practices ... You must demonstrate compliance by . . .
  i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or
  ii. 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 §63.6640(b): "You must report each instance in which you did not meet each emission limitation ... in ... Table 2d to this subpart that apply to you. These instances are deviations from the emission limitations ... in this subpart. These deviations must be reported according to the requirements in §63.6650."
- 40 CFR §63.6640(e): "You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you."
- 40 CFR §63.6645(a), August 20, 2010 revision: "You must submit all of the notifications in §§ ... 63.9(b) ... that apply to you by the dates specified if you own or operate any of the following: ... (5) This requirement does not apply if you own or operate ... an existing stationary RICE that is not subject to any numerical emission standards." The LFG Engines are not subject to any numerical emission standards and, therefore, are not required to submit any of the listed notifications, including the initial notification of §63.9(b).
- 40 CFR §63.6650(a), (b), (c)(1) through (4), (d) and (f):
  (a) You must submit each report in Table 7 of this subpart that applies to you.
  (b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 7 of this subpart and according to the requirements in paragraphs (b)(1) through (b)(9) of this section.
  (1) For semiannual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.6595.
  (2) For semiannual Compliance reports, the first Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.6595.

(3) For semiannual Compliance reports, each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.
(4) For semiannual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.
(5) For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6 (a)(3)(iii)(A), you may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (b)(4) of this section.
(6) For annual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on December 31.
(7) For annual Compliance reports, the first Compliance report must be postmarked or delivered no later than January 31 following the end of the first calendar year after the compliance date that is specified for your affected source in §63.6595.
(8) For annual Compliance reports, each subsequent Compliance report must cover the annual reporting period from January 1 through December 31.
(9) For annual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than January 31.

(c) The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section.
(1) Company name and address.
(2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
(3) Date of report and beginning and ending dates of the reporting period.
(4) If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with §63.6605(b), including actions taken to correct a malfunction.

(d) For each deviation from an emission.... limitation that occurs for a stationary RICE where you are not using a CMS to comply with the emission ... limitations in this subpart, the Compliance report must contain the information in paragraphs (c)(1) through (4) of this section and the information in paragraphs (d)(1) and (2) of this section.
(1) The total operating time of the stationary RICE at which the deviation occurred during the reporting period.
(2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

(f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to

satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.

- 40 CFR §63.6655(a)(1), (2), (4), and (5); (d); and e [because of e(2)], August 20, 2010 revision:
  (a) If you must comply with the emission ... limitations, you must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section.
  (1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).
  (2) Records of the occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the air pollution control and monitoring equipment.
  (4) Records of all required maintenance performed on the air pollution control and monitoring equipment.
  (5) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
  (d) You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you.
  (e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE;
  (2) An existing stationary emergency RICE.

- 40 CFR §63.6660:
  (a) Your records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).
  (b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
  (c) You 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, according to §63.10(b)(1).

- 40 CFR §63.6665: "Table 8 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you."

- **The compliance deadline for these requirements is October 19, 2013.**}

SECTION IV. APPENDICES.

The Following Appendices Are Enforceable Parts of This Permit:

Appendix A, Glossary.
Appendix F – Alternate Operating Procedures
Appendix G – Alternate Operating Parameter Value for Specified Gas Extraction Wells
Appendix I – List of Insignificant Emission Units and/or Activities
Appendix ICE – Requirements for Internal Combustion Engines
Appendix NSPS and NESHAP COMBINED, Subpart A – General Provisions
Appendix NSPS and NESHAP COMBINED, Subpart WWW and Subpart AAAA
Appendix ZZZZ – 40 CFR 63, Subpart ZZZZ
Appendix RR, Facility-wide Reporting Requirements.
Appendix TR, Facility-wide Testing Requirements. {Permitting Note: Deleted Condition TR.2.}
Appendix TV, Title V General Conditions.

REFERENCED ATTACHMENTS.

The Following Attachments Are Included for Applicant Convenience:

Figure 1, Summary Report-Gaseous and Opacity Excess Emission and Monitoring System Performance (40 CFR 60, July, 1996).
Table H, Permit History.
Table 1, Summary of Monitoring Requirements for MSW Landfills
Table 2, Summary of Recordkeeping Requirements for MSW Landfills
Table 3, Summary of Reporting Requirements for MSW Landfills

TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION (REVISED)

APPLICANT

Volusia County Solid Waste Services Division
3151 New York Avenue
DeLand, Florida 32724

Tomoka Farms Road Landfill

Facility ID No. 1270117

PROJECT

Project No. 1270117-006-AV
Application for Title V Air Operation Permit
Project Name: Title V Air Operation Permit Renewal and Revision

COUNTY

Volusia County, Florida

PERMITTING AUTHORITY

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

February 14, 2011 and April 3 & 7, 2011

Prepared by Jeffrey Rustin, P.E.

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. Leonard Marion, Director
Volusia County Solid Waste Services Division
3151 New York Avenue
DeLand, Florida 32724

B. Professional Engineer:

Mr. Carlo Lebron, P.E., VP and Project Manager
HDR Engineering, Inc.
200 W Forsyth Road, Suite 800
Jacksonville, Florida 32202-4321

C. Project Location:

Tomoka Farms Road Landfill
1990 Tomoka Farms Road
Port Orange, Florida

D. Project Summary:

The applicant applied on July 22, 2010 to the Department for a Title V air operation permit renewal and revision. The existing facility consists of a municipal solid waste disposal facility (landfill) with an active gas collection system. The collection system terminates in a candlestick flare destructive system (utility flare) or Generator Set of 4 Caterpillar 3516 SITA engines. There is an emergency generator for the flare at the facility. It is a compression ignition engine (model year 2000) that burns only diesel fuel. The revision is to incorporate the terms and conditions of draft air construction permit No. 1270117-007-AC, which will remove previous permit condition A8 from the Title V permit and will remove the enclosed flare from the emission units as it is being decommissioned.

E. Application Information:

Application(s) Received on: July 22, 2010
Additional Information Requested (No. 1) on: 09/20/2010
Additional Information Received on: 10/21/2010
Additional Information Requested (No. 2) on: 11/18/2010
Additional Information Received on: 11/18/2010
Applications(s) Complete: 11/18/2010

II. PSD Applicability for Project

As provided in the application, the following table summarizes potential emissions and PSD applicability for the project.

Table A. Potential Emissions (Tons/Year) and PSD Applicability

Pollutant	Project Potential Emission (tpy)	Significant Emissions Rate (tpy)	Subject to PSD?
CO (project only)	0	100	No, Facility Wide total is less than 250 tpy.
NOx (project only)	0	40	No, Facility Wide total is less than 250 tpy.
SO_2 (project only)	0	40	No, Facility Wide total is less than 250 tpy.
PM-10 (project only)	0	15	No, Facility Wide total is less than 250 tpy.
VOC (project only)	0	40	No, Facility Wide total is less than 250 tpy.

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. - Project Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements, F.A.C.	Y	Not exempt from general 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	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 62-296.400, F.A.C. - Stationary Source Emission Standards	N	There is no applicable source category.

Subject to:	Y/N	Comments
Rule 62-296.500, F.A.C. - Reasonably Available Control Technology (VOC)	N	Volusia 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)	Y	EU No. 001 is subject to 40 CFR 60, Subpart A- General Provisions and 40 CFR 60, Subpart WWW- Standards of Performance for Municipal Solid Waste Landfills.
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants (NESHAPS - 40 CFR 61)	Y	40 CFR Part 61, Subpart M applies.
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- General Provisions and 40 CFR 63, Subpart AAAA- National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Facilities. EU No. 002 is subject to 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.
Rule 62-297.310, F.A.C. - General Compliance Test Requirements, F.A.C.	Y	EPA Method 22 testing is required for EU No. 001.

IV. Summary of Emissions

Pollutant	EU No. and brief description	Potential Emissions (tpy)	Allowable Emissions (tpy)
PM-10	**Total**	**9.19**	
VOC	**Total**	**0.94**	
NOx	**Total**	**107.59**	
SO2	**Total**	**27.42**	
CO	**Total**	**184.72**	
HAPs	**Total**	**4.09**	
NMOC	**Total**	**2.41**	
VE	001- Municipal Solid Waste Landfill with Utility Flare. Flare shall be designed for and operated with no visible emissions as determined by the methods specified in paragraph (f) of 40 CFR 60, Subpart A, Section 60.18, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.	100 % opacity	20% opacity limit for facility (including generator set of 4 Caterpillar 3516 SITA engines), except candlestick flare shall not exceed 0% opacity, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

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 63, Subpart A – General Provisions;
D. 40 CFR 63 Subpart AAAA – National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Facilities; and
E. 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.

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).