Florida Department of Environmental Protection

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

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard, Jr.
Secretary

Electronically Sent- Received Receipt Requested
lee.niblock@marioncountyfl.org

Dr. Lee Niblock, County Administrator
Marion County Board of County Commissioners
601 SE 25th Avenue
Ocala, Florida 34471-2600

Re: Permit No. 0830124-010-AV
Marion County Baseline Landfill
Title V Air Operation Permit Renewal and Revision

Dear Dr. Niblock:

Enclosed is the draft permit package to renew and revise the Title V air operation permit for the Marion County Baseline Landfill. This facility is located in Marion County at 5601 SE 66th Street, Ocala, Florida. 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 project.
- The Written Notice of Intent to Issue Air Permit provides important information regarding: the Permitting Authority's intent to issue an air permit for the proposed project; 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 Permit 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

Caroline D.Shine
District Air Program Administrator

1/28/11
Date

Enclosures
CDS/jr

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

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

Marion County Board of County Commissioners
601 SE 25th Avenue
Ocala, Florida 34471-2600

Responsible Official:

Dr. Lee Niblock, County Administrator

Permit No. 0830124-010-AV
Facility ID No. 0830124
Marion County Baseline Landfill
Title V Air Operation Permit Renewal and Revision
Marion County, Florida

Facility Location: Marion County Board of County Commissioners operates the Marion County Baseline Landfill, which is located in Marion County at 5601 SE 66th Street, Ocala, Florida.

Project: The purpose of this project is to renew Title V air operation permit No. 0830124-005-AV and revise Title V air operation permit No. 0830124-009-AV, for the above referenced facility. Details of the project are provided in the application and the enclosed Statement of Basis.

Permitting Authority: Applications for Title V air operation 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 project is 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

Caroline D. Shine
District Air Program Administrator

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Written Notice of Intent to Issue Title V Air Operation Permit (including the Public Notice, the Statement of Basis, and the Draft Permit), 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 1/28/11 to the persons listed below.

Dr. Lee Niblock, County Administrator: lee.niblock@marioncountyfl.org
Mr. Ken Whitehead, P.E., Director, Marion County Solid Waste Dept.: leonard.whitehead@marioncountyfl.org
Mr. Mark Hadlock, P.E., Senior Engineer, Jones Edmunds & Associates, Inc.: mhadlock@jonesedmunds.com
Ms. Mickey Pollman, Jones Edmunds & Associates, Inc.: mpollman@jonesedmunds.com
Ms. Rebecca Kelner, P.E., Kelner Engineering, Inc.: rebecca@kelnerinc.com
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) 1/28/11 (Date)

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Florida Department of Environmental Protection
Central District Office
Draft Permit No. 0830124-010-AV
Marion County Board of County Commissioners, Marion County Baseline Landfill
Marion County, Florida

Applicant: The applicant for this project is Marion County Board of County Commissioners. The applicant's responsible official and mailing address are:

Dr. Lee Niblock, County Administrator
Marion County Board of County Commissioners
601 SE 25th Avenue
Ocala, Florida 34471-2600

Facility Location: The applicant operates the Marion County Baseline Landfill, which is located in Marion County at 5601 SE 66th Street, Ocala, Florida.

Project: The applicant applied on June 4, 2010 to the Department for a Title V air operation permit renewal and November 24, 2010 for a Title V air operation permit revision. This is a renewal of Title V air operation permit No. 0830124-005-AV and revision of Title V air operation permit No. 0830124-009-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 reciprocating interal combustion engine/generator sets No. 1, No. 2, or No. 3. Four backup generators are at the facility. The revision is to incorporate the terms and conditions of Air Construction Permit No. 0830124-008-AC to include EU 005, Reciprocating Internal Combustion Engine Set No. 3.

Permitting Authority: Applications for Title V air operation 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 project is 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.

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(Public Notice to be Published in the Newspaper)

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.

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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.

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(Public Notice to be Published in the Newspaper)

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.

TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION

APPLICANT

Marion County Board of County Commissioners
601 SE 25th Avenue
Ocala, Florida 34471-2600

Marion County Baseline Landfill

Facility ID No. 0830124

PROJECT

Project No. 0830124-010-AV
Application for Title V Air Operation Permit
Project Name: Title V Air Operation Permit Renewal and Revision

COUNTY

Marion County, Florida

PERMITTING AUTHORITY

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

January 25, 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:

Dr. Lee Niblock, County Administrator
Marion County Board of County Commissioners
601 SE 25th Avenue
Ocala, Florida 34471

B. Professional Engineers (Renewal and Revision):

For Renewal Application:

Mr. Mark Hadlock, P.E., Senior Engineer
Jones Edmunds & Associates, Inc.
730 NE Waldo Road
Gainesville, Florida 32641

For Revision Application:

Ms. Rebecca Kelner, P.E.
Kelner Engineering
1050 NE 10th Place
Gainesville, FL 32601

C. Project Location:

Marion County Baseline Landfill
5601 SE 66th Street
Ocala, Florida 34480

D. Project Summary:

The applicant applied on June 3, 2010 to the Department for a Title V air operation permit renewal and November 24, 2010 for a Title V air operation permit revision. This is a renewal of Title V air operation permit No. 0830124-005-AV and revision of Title V air operation permit No. 0830124-009-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 reciprocating internal combustion engine/generator sets No. 1, No. 2, or No. 3. Four backup generators are at the facility. The revision is to incorporate the terms and conditions of air construction permit No. 0830124-008-AC to include EU 005, Reciprocating Internal Combustion Engine Set No. 3.

E. Application Information:

Applications Received on: June 3, 2010 and November 24, 2010
Additional Information Requested on: 08/02/2010 (renewal)
Additional Information Received on: 10/31/2010 (revision)
Applications Complete: 10/31/2010 (renewal) 11/24/2010 (revision)

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	226.4 (EU001-005)	100	No, PTE < 250tpy No, Increase is 34.4 tpy (EU005 only)
NO_X	132.2 (EU001-005)	40	No, Increase is 22.2 tpy (EU005 only)
PM	11.1(EU001-005)	15	No
SO_2	5.56(EU001-005)	40	No
VOC	3.08(EU001-005)	40	No

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	Marion County is an attainment area for ozone.
Rule 62-296.700, F.A.C. - Reasonably	N	There is no applicable source

Subject to:	Y/N	Comments
Available Control Technology (PM)		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. EU No. 003, 004, 005 are subject to 40 CFR 60, Subpart JJJJ. EU 006 is subject to 40 CFR 60, Subpart IIII.
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants (NESHAPS – 40 CFR 61)	N	There is no applicable source category.
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants for Source Categories a.k.a. MACT (NESHAPS – 40 CFR 63)	Y	EU No. 001 is subject to 40 CFR 63, Subpart A- General Provisions and 40 CFR 63, Subpart AAAA- National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Facilities. EU No. 006 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	**Total**	**11.1**	
VOC	**Total**	**3.08**	
NOx	**Total**	**132.2**	
SO2	**Total**	**5.56**	
CO	**Total**	**226.4**	
VE	001- Municipal Solid Waste Landfill with Candlestick 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 reciprocating internal combustion engine/generator sets No. 1, No. 2, and No. 3; and the four backup generators), 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;
E. 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines; and
F. 40 CFR 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines

VI. Conclusions

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

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

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).

Title V Air Operation Permit Renewal and Revision
Permit No. 0830124-010-AV

APPLICANT

The applicant for this project is Marion County Board of County Commissioners. The applicant's responsible official and mailing address are:

Dr. Lee Niblock, County Administrator
Marion County Board of County Commissioners
601 SE 25th Avenue
Ocala, Florida 34471-2600

FACILITY DESCRIPTION

The applicant operates the Marion County Baseline Landfill, which is located at 5601 SE 66th Street in Ocala, 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 or reciprocating internal combustion engine/generator sets No. 1, No. 2, and No. 3. Four backup generators are located at the facility.

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 003, EU 004, and EU 005 (Reciprocating Internal Combustion Engine/Generator Sets) are subject to 40 CFR 60, Subpart JJJJ. EU 006 (Backup Generators) is subject to 40 CFR 60, Subpart IIII and 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 0830124-009-AC (added EU 005) for the above referenced facility.

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Application for a Title V Air Operation Permit Renewal received June 4, 2010
First Additional Information Request dated August 2, 2010
Renewed Title V Air Operation Permit issued August 3, 2010
Additional Information Response received October 31, 2010
Application for a Title V Air Operation Permit Revision received November 24, 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 Construction Permit 0830124-008-AC into the Tile V air operation permit. Additionally, it is a renewal of Permit 0830124-005-AV and the permit has been reformatted.

CONCLUSION

This project renews Title V air operation permit No. 0830124-005-AV, which was issued on November 19, 2006 and revises Title V air operation permit No. 0830124-009-AV, which was issued on August 3, 2010. 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.

Marion County Board of County Commissioners
Marion County Baseline Landfill

Facility ID No. 0830124
Marion County

Title V Air Operation Permit Renewal and Revision

Permit No. 0830124-010-AV
(Renewal of Title V Air Operation Permit No. 0830124-005-AV and Revision of Title V Air Operation Permit No. 0830124-009-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. 0830124-010-AV

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DRAFT PERMIT

PERMITTEE:
Marion County Board of County Commissioners
601 SE 25th Avenue
Ocala, Florida 34471-2600

Permit No. 0830124-010-AV
Marion County Baseline Landfill
Facility ID No. 0830124
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 Marion County Baseline Landfill is located in Marion County at 5601 SE 66th Street, Ocala, Florida. UTM Coordinates are: Zone 17, 397.7 East and 3222.1 North. Latitude is: 29° 07' 30" North; and, Longitude is: 82° 03' 45" 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 is a municipal solid waste disposal facility (landfill) with an active gas collection system. The collection system terminates in a candlestick flare destruction device or reciprocating internal combustion engine/generator sets No. 1, No. 2, and No. 3. Four backup generators are located at the facility.

Subsection B. Summary of Emissions Units.

EU No.	Brief Description
Regulated Emissions Units	
001	Municipal Solid Waste Landfill with a Candlestick Flare
003	Reciprocating Internal Combustion Engine/Generator Set No. 1
004	Reciprocating Internal Combustion Engine/Generator Set No. 2
005	Reciprocating Internal Combustion Engine/Generator Set No. 3
006	4 Backup Generators

Subsection C. Applicable Regulations.

Based on the Title V air operation permit renewal application received June 3, 2010 and revision application received November 24, 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
40 CFR 63, Subpart AAAA, NESHAP Municipal Solid Waste Facilities	001
40 CFR 60, Subpart JJJJ, NSPS for Stationary Spark Ignition Internal Combustion Engine	003, 004, 005
40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	006
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.}	006

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)**
[62-4.090, 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 Candlestick Flare

Essential Potential to Emit (PTE) Parameters

A.1. Permitted Capacity. The landfill gas collection system maximum flow rate is 2,500 scfm of gas.
[Rule 62-210.200(PTE), F.A.C.]

A.2. Hours of Operation. This emissions unit may operate continuously (8,760 hours/year).
[Rule 62-210.200(PTE), F.A.C.]

A.3. 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

A.4. 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.5. 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.6. 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.7. 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.8. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit.
[Rule 62-297.310, F.A.C.]

A.9. 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.4.
[Rule 62-297.310(7), F.A.C.]

A.10. 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.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.]

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

Other Requirements

A.13. 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
003	Reciprocating Internal Combustion Engine/Generator Set No. 1
004	Reciprocating Internal Combustion Engine/Generator Set No. 2
005	Reciprocating Internal Combustion Engine/Generator Set No. 3

Reciprocating Internal Combustion Engine/Generator Set No. 1 and No. 2 are manufactured by Caterpillar Model G3520C (2,333 hp and 1.6 MW each). The Reciprocating Internal Combustion Engine/Generator Set No. 3 is manufactured by Caterpillar and is Model G3516 (0.815 MW). The engines are fired by landfill gas only conveyed from the existing flare station through a treatment system that consists of compression, dehydrating, and filtering processes prior to being combusted in the engines. The existing flare will continue to operate to burn any excess landfill gas collected but not sent to the engines.

Essential Potential to Emit (PTE) Parameters

B.1. Permitted Capacity. Engine/Generator Set No. 1 and Engine/Generator Set No. 2 shall be fired with landfill gas only at a maximum of 1.6 MW of electrical power. Engine/Generator Set No. 3 shall be fired with landfill gas only at a maximum of 0.85 MW of electrical power.
[Rule 62-210.200(PTE), F.A.C.]

B.2. Methods of Operation. Unless otherwise indicated, the operation of the Caterpillar Reciprocating Internal Combustion Engine/Generator Sets 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.3. 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.4. 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.5. 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.6. 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.7. 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.8. 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.9. 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.10. 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.11. Annual Compliance Tests Required. During each federal fiscal year (October 1st to September 30th), EU 002 shall be tested to demonstrate compliance with the emissions standards for visible emissions specified in Specific Condition B.5. 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.12. 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.13. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

Other Requirements

B.14 Federal Rule Requirements. In addition to the specific conditions listed above, the engines are subject to the applicable requirements contained in 40 CFR 60, Subpart JJJJ, NSPS for Stationary Spark Ignition 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: The following is from 40 CFR 60, Subpart JJJJ: e) Owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) must comply with the emission standards in Table 1 to this subpart for their stationary SI ICE. For owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 100 HP (except gasoline and rich burn engines that use LPG) manufactured prior to January 1, 2011 that were certified to the certification emission standards in 40 CFR part 1048 applicable to engines that are not severe duty engines, if such stationary SI ICE was certified to a carbon monoxide (CO) standard above the standard in Table 1 to this subpart, then the owners and operators may meet the CO certification (not field testing) standard for which the engine was certified.

Table 1 to Subpart JJJJ of Part 60—NO_X, CO, and VOC Emission Standards for Stationary Non-Emergency SI Engines ≥100 HP (Except Gasoline and Rich Burn LPG), Stationary SI Landfill/Digester Gas Engines, and Stationary Emergency Engines >25 HP

Engine type and fuel	Maximum engine power	Manufacture date	Emission standards[a] g/HP-hr			Emission standards[a] ppmvd at 15% O_2		
			O_X	O	OC[d]	O_X	O	OC[d]
Non-Emergency SI Natural Gas[b] and Non-Emergency SI Lean Burn LPG[b]	100≤HP<500	7/1/2008 1/1/2011	.0 1.0	.0 2.0	.0 0.7	60 82	40 270	6 60
Non-Emergency SI Lean Burn Natural Gas and LPG	500≥HP<1,350	1/1/2008 7/1/2010	.0 1.0	.0 2.0	.0 0.7	60 82	40 270	6 60
Non-Emergency SI Natural Gas and Non-Emergency SI Lean Burn LPG (except lean burn 500=≥HP<1,350)	HP≥500 HP≥500	7/1/2007 7/1/2010	.0 1.0	.0 2.0	.0 0.7	60 82	40 270	6 60
Landfill/Digester Gas (except lean burn 500≥HP<1,350)	HP<500	7/1/2008 1/1/2011	.0 2.0	.0 5.0	.0 1.0	20 150	10 610	0 80
	HP≥500	7/1/2007 7/1/2010	.0 2.0	.0 5.0	.0 1.0	20 150	10 610	0 80
Landfill/Digester Gas Lean Burn	500≥HP<1,350	1/1/2008 7/1/2010	.0 2.0	.0 5.0	.0 1.0	20 150	10 610	0 80
Emergency	25>HP<130 HP≥130	1/1/2009	10 2.0	87 4.0	/A 1.0	/A 160	/A 540	/A 86

[a]Owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O2.

[b]Owners and operators of new or reconstructed non-emergency lean burn SI stationary engines with a site rating of greater than or equal to 250 brake HP located at a major source that are meeting the requirements of 40 CFR part 63, subpart ZZZZ, Table 2A do not have to comply with the CO emission standards of Table 1 of this subpart.

[c]The emission standards applicable to emergency engines between 25 HP and 130 HP are in terms of NO_X+HC.

[d]For purposes of this subpart, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.

Table 2 to Subpart JJJJ of Part 60—Requirements for Performance Tests

[As stated in §60.4244, you must comply with the following requirements for performance tests within 10 percent of 100 percent peak (or the highest achievable) load]

For each	Complying with the requirement to	You must	Using	According to the following requirements
1. Stationary SI internal combustion engine demonstrating compliance according to §60.4244.	a. limit the concentration of NO_Xin the stationary SI internal combustion engine exhaust.	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A or ASTM Method D6522–00(2005)[a].	(a) If using a control device, the sampling site must be located at the outlet of the control device.
	ii. Determine the O_2concentration of the stationary internal combustion engine exhaust at the sampling port location;	(2) Method 3, 3A, or 3B[b]of 40 CFR part 60, appendix A or ASTM Method D6522–00(2005)[a].	(b) Measurements to determine O_2concentration must be made at the same time as the measurements for NO_Xconcentration.	
	iii. Determine the exhaust flowrate of the stationary internal combustion engine exhaust;	(3) Method 2 or 19 of 40 CFR part 60.		
	iv. If necessary, measure moisture content of the stationary internal	(4) Method 4 of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM	(c) Measurements to determine moisture must be made at the same time as the	

	combustion engine exhaust at the sampling port location; and	D6348–03 (incorporated by reference, see §60.17).	measurement for NO_Xconcentration.	
	v. Measure NO_Xat the exhaust of the stationary internal combustion engine.	(5) Method 7E of 40 CFR part 60, appendix A, Method D6522–00(2005)[a], Method 320 of 40 CFR part 63, appendix A, or ASTM D6348–03 (incorporated by reference, see §60.17).	(d) Results of this test consist of the average of the three 1-hour or longer runs.	
	b. limit the concentration of CO in the stationary SI internal combustion engine exhaust.	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A.	(a) If using a control device, the sampling site must be located at the outlet of the control device.
	ii. Determine the O_2concentration of the stationary internal combustion engine exhaust at the sampling port location;	(2) Method 3, 3A, or 3Bb of 40 CFR part 60, appendix A or ASTM Method D6522–00(2005)[a].	(b) Measurements to determine O_2concentration must be made at the same time as the measurements for CO concentration.	
	iii. Determine the exhaust flowrate of the stationary internal combustion engine exhaust;	(3) Method 2 or 19 of 40 CFR part 60.		
	iv. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	(4) Method 4 of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D6348–03 (incorporated by reference, see §60.17).	(c) Measurements to determine moisture must be made at the same time as the measurement for CO concentration.	
	v. Measure CO at the exhaust of the stationary internal combustion engine.	(5) Method 10 of 40 CFR part 60, appendix A, ASTM Method D6522–00(2005)[a], Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03 (incorporated by reference, see §60.17).	(d) Results of this test consist of the average of the three 1-hour or longer runs.	
	c. limit the	i. Select the sampling port	(1) Method 1 or 1A of	(a) If using a

	concentration of VOC in the stationary SI internal combustion engine exhaust.	location and the number of traverse points;	40 CFR part 60, appendix A.	control device, the sampling site must be located at the outlet of the control device.
	ii. Determine the O_2concentration of the stationary internal combustion engine exhaust at the sampling port location;	(2) Method 3, 3A, or 3B[b]of 40 CFR part 60, appendix A or ASTM Method D6522–00(2005)[a].	(b) Measurements to determine O_2concentration must be made at the same time as the measurements for VOC concentration.	
	iii. Determine the exhaust flowrate of the stationary internal combustion engine exhaust;	(3) Method 2 or 19 of 40 CFR part 60.		
	iv. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	(4) Method 4 of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D6348–03 (incorporated by reference, see §60.17).	(c) Measurements to determine moisture must be made at the same time as the measurement for VOC concentration.	
	v. Measure VOC at the exhaust of the stationary internal combustion engine.	(5) Methods 25A and 18 of 40 CFR part 60, appendix A, Method 25A with the use of a methane cutter as described in 40 CFR 1065.265, Method 18 or 40 CFR part 60, appendix A,[cd]Method 320 of 40 CFR part 63, appendix A, or ASTM D6348–03 (incorporated by reference, see §60.17).	(d) Results of this test consist of the average of the three 1-hour or longer runs.	

[a]ASTM D6522–00 is incorporated by reference; see 40 CFR 60.17. Also, you may petition the Administrator for approval to use alternative methods for portable analyzer.

[b]You may use ASME PTC 19.10–1981, Flue and Exhaust Gas Analyses, for measuring the O_2content of the exhaust gas as an alternative to EPA Method 3B.

[c]You may use EPA Method 18 of 40 CFR part 60, appendix A, provided that you conduct an adequate presurvey test prior to the emissions test, such as the one described in OTM 11 on EPA's Web site (*http://www.epa.gov/ttn/emc/prelim/otm11.pdf*).

[d]You may use ASTM D6420–99 (2004), Test Method for Determination of Gaseous Organic Compounds by Direct Interface Gas Chromatography/Mass Spectrometry as an alternative to EPA Method 18 for measuring total nonmethane organic.}

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

EU No.	Brief Description
006	4 Backup Generators: LFGen – 3, LFGen – 4, LFGen – 5, LFGen – 6

Essential Potential to Emit (PTE) Parameters

C.1. Federal Rule Requirements. This emissions unit is subject to the applicable requirements contained in 40 CFR 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and 40 CFR 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines
[Rule 62-213.440, F.A.C.]

{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.}

Recordkeeping Requirements

C.2. Recordkeeping. Maintain recordkeeping necessary to maintain compliance with 40 CFR 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and 40 CFR 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants: 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: Maintain a maintenance log for the engines based on the manufacturer's emission-related written instructions or your own maintenance plan. The following is from 40 CFR Subpart ZZZZ:

e) 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:

(1) An existing stationary RICE with a site rating of less than 100 HP located at a major source of HAP emissions;

(2) An existing emergency or black start stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions;

(3) An existing emergency or black start stationary RICE located at an area source of HAP emissions;}

SECTION IV. APPENDICES.

The Following Appendices Are Enforceable Parts of This Permit:

Appendix A, Glossary.
Appendix F – Alternate Operating Procedures
Appendix G – Alternating Operating Parameter Value for Specified Gas Extraction Wells
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 IIII – 40 CFR 60, Subpart IIII
Appendix JJJJ – 40 CFR 60, Subpart JJJJ
Appendix ZZZZ – 40 CFR 63, Subpart ZZZZ
Appendix RR, Facility-wide Reporting Requirements.
Appendix TR, Facility-wide Testing Requirements.
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