



Department of Environmental Protection

Jeb Bush
Governor

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

Colleen M. Castille
Secretary

ELECTRONIC MAIL

Pat.Howard@marioncounty.org

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

Re: Title V Air Operation Permit Renewal
PROPOSED Title V Permit No.: 0830124-005-AV
Marion County Baseline Landfill

Dear Mr. Howard:

One copy of the "PROPOSED Determination" for the Title V Air Operation Permit for the Marion County Baseline Landfill located at 5601 SE 66th Street, Ocala, Marion County, is enclosed. This letter is only a courtesy to inform you that the DRAFT Permit has become a PROPOSED Permit.

An electronic version of this determination has been posted on the Division of Air Resources Management's world wide web site for the United States Environmental Protection Agency (USEPA) Region 4 office's review. The web site address is:

http://www.dep.state.fl.us/air/permitting/airpermits/AirSearch_ltd.asp

Pursuant to Section 403.0872(6), Florida Statutes, if no objection to the PROPOSED Permit is made by the USEPA within 45 days, the PROPOSED permit will become a FINAL Permit no later than 55 days after the date on which the PROPOSED permit was mailed (posted) to USEPA. If USEPA has an objection to the PROPOSED Permit, the FINAL Permit will not be issued until the permitting authority receives written notice that the objection is resolved or withdrawn.

If you should have any questions, please contact Alan Zahm, P.E. at 407/893-3335.

Sincerely,

L.T. Kozlov, P.E.
Program Administrator
Air Resources Management

LTK/azt

Enclosures

Copy furnished to:

Mark D. Hadlock, P.E., Jones, Edmunds & Associates, (*MHadlock@jea.net*)

Ken Whitehead, P.E., Solid Waste Division Director, (*Leonard.Whitehead@marioncounty.org*)

PROPOSED Determination

PROPOSED Permit No.: 0830124-005-AV

Page 1 of 1

I. Public Notice.

An "INTENT TO ISSUE TITLE V AIR OPERATION PERMIT" to Marion County Baseline Landfill located at 5601 SE 66th Street, Ocala, Marion County, was clerked on September 22, 2005. The "PUBLIC NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT" was published in the **Star-Banner**, October 12, 2005. The DRAFT Title V Air Operation Permit was available for public inspection at the permitting authority's office in Orlando. Proof of publication of the "PUBLIC NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT" was received on October 19, 2005.

II. Public Comment(s).

No comments were received during the 30 (thirty) day public comment period. Since no comments were received, the DRAFT Permit becomes the PROPOSED Permit.

III. Conclusion.

Since there were no comments received during the Public Notice period, no changes were made to the DRAFT Permit and the permitting authority hereby issues the PROPOSED Permit, No. 0830124-005-AV.

STATEMENT OF BASIS

Marion County Board of County Commissioners
Marion County Baseline Landfill
Facility ID No.: 0830124
Marion County

Title V Air Operation Permit Renewal
PROPOSED Permit Project No.: 0830124-005-AV

This Title V Air Operation Permit Renewal is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210 and 62-213. The above named permittee is hereby authorized to operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

The subject of this permit is for the renewal of Title V Air Operation Permit.

The facility consists of a municipal solid waste landfill with a candlestick flare, and a refractory-walled air curtain incinerator.

The Model S-327 refractory-walled Air Curtain Incinerator, identified as emissions unit 002 (EU – 002), is manufactured by Air Burner, LLC. The unit's maximum incineration rate is 15 tons per hour. A curtain of forced air over and around the firebox controls emissions from the incinerator. The air curtain is generated by a minimum 76 horsepower, four-cylinder diesel powered engine, which generates 900 cubic feet per minute per foot of airflow at a velocity of 9,200 feet per minute at the manifold air nozzles. The air curtain incinerator is located on restricted access property owned by Marion County adjacent to the Baseline Landfill.

The applicable emission limitations are as follows:

The landfill, EU – 001, is subject to 40 CFR Part 60, Subparts A (General Provisions) and WWW (Standards of Performance for Municipal Solid Waste Landfills. The air curtain incinerator, EU – 002, is subject to 40 CFR Part 60, Subpart CCCC (Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction is Commenced After November 30, 1999, or for Which Modification or Reconstruction is Commenced on or After June 1, 2001). The facility is subject to the General Volatile Organic Compound (VOC) standard per Rule 62-296.320(1)(a), F.A.C.; the Objectionable Odor Rule per Rule 62-296.320(2), F.A.C.; and Reasonable Precautions to Prevent Emissions of Unconfined Particulate Matter (PM) per Rule 62-296.320(4)(c)2., F.A.C. CAM does not apply. The flare is not subject to compliance assurance monitoring (CAM) under 40 CFR Part 64.

Also included in this permit are miscellaneous unregulated/insignificant emissions and/or activities.

Based on the Title V Air Operation Permit Renewal application received July 5, 2005, this facility is not a major source of hazardous air pollutants (HAPs).

Marion County Board of County Commissioners
Marion County Baseline Landfill
Facility ID No.: 0830124
Marion County

Title V Air Operation Permit Renewal

PROPOSED Permit Project No.: 0830124-005-AV

Permitting and Compliance Authority:
Florida Department of Environmental Protection
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803
Telephone: 407/893-3334
Fax: 407/897-5963

Title V Air Operation Permit Renewal

PROPOSED Permit No.: 0830124-005-AV

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Jeb Bush
Governor

Department of Environmental Protection

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

Colleen M. Castille
Secretary

Permittee:

Marion Co. Board of Co. Commissioners
602 SE 25th Avenue
Ocala, FL 34471
Attention: Patrick Howard,
County Administrator

PROPOSED Permit No.: 0830124-005-AV

Facility ID No.: 0830124

SIC Nos.: 24, 2421

Project: Title V Air Operation Permit
Renewal

The purpose of this permit is to renew the Title V Air Operation Permit. This facility is located at 5601 SE 66th Street, Ocala, Marion County; UTM Coordinates: Zone 17, 397.7 km East and 3222.1 km North; Latitude: 29° 07' 30" North and Longitude: 82° 03' 45" West.

This Title V Air Operation Permit Renewal is issued under the provisions of Chapter 403, Florida Statutes (F.S.) and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, and 62-213. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Referenced attachments made a part of this permit:

Appendix B, 40 CFR 60 Subparts A and WWW

Appendix C, 40 CFR 60 Subpart CCCC

Appendix D, Definitions for Subpart WWW – Municipal Solid Waste Landfills

Appendix E, 40 CFR 60 and 61 Subpart A, Flares, General Provisions

Appendix I-1, List of Insignificant Emission Units and/or Activities, and App. TV-5
Tables 1, 2, and 3, Summaries of Requirements for Municipal Solid Waste Landfills

Effective Date:	TBD
Renewal Application Due:	July 5, 2010
Expiration Date:	January 15, 2011

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

L.T. Kozlov, P.E.
Program Administrator
Air Resources Management

Marion County Board of County Commissioners **PROPOSED Permit No.:** 0830124-005-AV
Marion County Baseline Landfill **Facility ID No.:** 0830124

Section I. Facility Information.

Subsection A. Facility Description.

This facility consists of a municipal solid waste facility (landfill) with an active gas collection system. The collection system terminates in a candlestick flare destruction device. Additionally, a refractory-walled air curtain incinerator used to burn wood and yard waste is included in this permit. Also included in this permit are miscellaneous insignificant emission units and/or activities.

Based on the Title V Air Operation Permit Renewal Application received July 5, 2005, this facility is not a major source of hazardous air pollutants (HAPs).

Subsection B. Summary of Emissions Unit ID No(s). and Brief Description(s).

E.U. ID No./Brief Description

- 001 Municipal solid waste landfill with a candlestick flare
- 002 Refractory-walled air curtain incinerator

Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.

Subsection C. Relevant Documents.

The documents listed below are not a part of this permit, however, are specifically related to this permitting action.

These documents are provided to the permittee for information purposes only:

Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
Appendix H-1, Permit History/I.D. Number Changes
Statement of Basis

These documents are on file with permitting authority:

Initial Title V Air Operation Permit issued March 12, 1997
Additional information request dated May 7, 1997, and June 5, 1997.
Initial Title V Air Operation Permit issued December 10, 1997.
Title V Air Operation Permit Renewal Application received November 13, 2000.
Title V Air Operation Permit Renewal issued May 14, 2001.
Application for a combined air construction permit and Title V Air Operation Permit Revision

Marion County Board of County Commissioners
Marion County Baseline Landfill

PROPOSED Permit No.: 0830124-005-AV
Facility ID No.: 0830124

Section II. Facility-wide Conditions.

The following conditions apply facility-wide:

1. APPENDIX TV-5, TITLE V CONDITIONS, is a part of this permit.
 2. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), F.A.C.]
 3. General Particulate Emission Limiting Standards. General Visible Emissions Standard. Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Rule 62-297, F.A.C.
[Rule 62-296.320(4)(b)1. & 4., F.A.C.]
 4. Prevention of Accidental Releases (Section 112(r) of CAA).
 - a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:

RMP Reporting Center
P.O. Box 1515
Lanham-Seabrook, Maryland 20703-1515
Telephone: 301/429-5018
- and,
- b. The permittee shall 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]
5. Insignificant Emissions Units and/or Activities. Appendix I-1, List of Insignificant Emissions Units and/or Activities, is a part of this permit.
[Rules 62-213.440(1), 62-213.430(6), and 62-4.040(1)(b), F.A.C.]
6. General Pollutant Emission Limiting Standards. 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

Marion County Board of County Commissioners **PROPOSED Permit No.:** 0830124-005-AV
Marion County Baseline Landfill **Facility ID No.:** 0830124

7. Emissions of Unconfined Particulate Matter. Pursuant to Rules 62-296.320(4)(c)1., 3. & 4., F.A.C., reasonable precautions to prevent emissions of unconfined particulate matter at this facility include the following requirements (see Condition 57 of APPENDIX TV-5, TITLE V CONDITIONS):

The following requirements are “not federally enforceable”:

- 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)2., F.A.C.]

8. When appropriate, any recordings, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.
[Rule 62-213.440, F.A.C.]

9. The permittee shall submit all compliance related notifications and reports required of this permit to the Department of Environmental Protection’s Central District office:

Florida Department of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803
Telephone: 407/894-7555

10. Any reports, data, notifications, certifications, and requests required to be sent to the United States Environmental Protection Agency, Region 4, should be sent to:

United States Environmental Protection Agency
Region 4
Air, Pesticides & Toxics Management Division
Air Enforcement Section
61 Forsyth Street
Atlanta, Georgia 30303
Telephone: 404/562-9099; Fax: 404/562-9095

{Permitting Note: This condition implements the requirements of Rules 62-210.370(3) F.A.C. (see Condition 24. of APPENDIX TV-5, TITLE V CONDITIONS.)}

11. Certification by Responsible Official (RO). In addition to the professional engineering certification required for applications by Rule 62-4.050(3), F.A.C., any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, F.A.C., shall contain a certification signed by a responsible official that, based on information and belief formed after reasonable inquiry, the statements and information in the application are true and correct. A responsible official who fails to submit any

Marion County Board of County Commissioners **PROPOSED Permit No.:** 0830124-005-AV
Marion County Baseline Landfill **Facility ID No.:** 0830124

such failure or incorrect submittal, promptly submit such supplementary information or correct information.

[Rule 62-213.420(4), F.A.C.]

12. Reports of the required test report shall be filed with the air compliance section of this office as soon as practical but no later than 45 days after the last test is completed.

[Rule 62-297.310(8)(b), F.A.C.]

13. At least 180 days prior to the expiration date of this operation permit, the permittee shall submit to this office four copies of the air permit application, DEP Form No. 62-210.900(1).

[Rule 62-4.090(1), F.A.C.]

Annual Statements

14. **Annual Operating Report.** A DEP Form No. 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility" including the Emissions Report, shall be completed for each calendar year on or before March 1 of the following year and submitted to the Department of Environmental Protection's Central District office:

Florida Department of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803
Telephone: 407/894-7555

{Permitting Note: This condition implements the requirements of Rules 62-210.370(3) F.A.C. (see Condition 24. of APPENDIX TV-5, TITLE V CONDITIONS.)}

15. **Statement of Compliance.** The annual statement of compliance pursuant to Rule 62-213.440(3)(a)2., F.A.C., shall be submitted to the Department and EPA within 60 (sixty) days after the end of the calendar year using DEP Form No. 62-213.900(7), F.A.C. The required elements of the compliance certification are listed in 40 C.F.R. Part 70.6(c)(5)(iii) as indicated in Condition Number 51 of Appendix TV-4, Title V Conditions.

[Rules 62-213.440(3) and 62-213.900, F.A.C.]

{Permitting Note: This condition implements the requirements of Rules 62-213.440(3)(a)2. & 3., F.A.C. (see Condition 51. of APPENDIX TV-5, TITLE V CONDITIONS.)}

Section III. Emissions Unit(s) and Conditions.

Subsection A. This section addresses the following emissions unit(s).

E.U. ID No./ Brief Description

-001 Municipal solid waste landfill with a candlestick flare

{Permitting Note: This emission unit is regulated under NSPS – 40 CFR subpart WWW, Standards of Performance for Municipal Solid Waste Landfills, all adopted and incorporated by reference in Rule 62-204.800, F.A.C.}

The following conditions apply to the emissions unit(s) listed above:

Essential Potential to Emit (PTE) Parameters

A1. Permitted Capacity. The landfill gas collection system maximum flow rate is 2,500 scfm of gas.

A2. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year.
[Rule 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

A3. The visible emission limitation for the flares must comply with 40 CFR 60.18 (no visible emissions except for periods not to exceed a total of 5 minutes during any 2 consecutive hours).
[40 CFR 60.18(c)(1)]

Test Methods and Procedures

{Permitting Note: Table 3, Summary of Compliance Requirements for Municipal Solid Waste Landfills, summarizes information for convenience purposes only. This table does not supercede any of the terms or conditions of this permit.}

A4. The flare must be tested for visible emissions in accordance with EPA Method 22. The test shall last two hours. Testing shall be conducted annually.
[40 CFR 60.18(f)(1)]

A5. 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.
[40 CFR 60.18(c)(2)]

A6. The permittee shall notify the Central District Office of the Department of Environmental Protection, in writing, at least 15 days prior to the date on which each formal compliance test is to begin. Said notification shall include the date, time and place of each such test, as well as the name of the contact person who will be responsible for coordinating and having such tests conducted for the owner.
[Rule 62-297 310(7)(a)9, F.A.C.]

A7. 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.]

A8. This emission unit is subject to the following requirements from Title 40 of the Code of Federal Regulations Part 60 (see attached Appendix B):

40 CFR 60.7	<u>Notification and record keeping.</u>	Appendix B, page 1
40 CFR 60.8	<u>Performance tests</u>	Appendix B, page 1
40 CFR 60.11	<u>Compliance with standards and maintenance requirements</u>	Appendix B page 2
40 CFR 60.13	<u>Monitoring requirements</u>	Appendix B page 4
40 CFR 60.14	<u>Modification</u>	Appendix B page 6
40 CFR 60.18	<u>General control device requirements</u>	Appendix B page 7
40 CFR 60.752	<u>Standards for air emissions from municipal solid waste landfills</u>	Appendix B page 9
40 CFR 60.753	<u>Operational standards for collection and control systems</u>	Appendix B page 10
40 CFR 60.754	<u>Test methods and procedures</u>	Appendix B page 12
40 CFR 60.755	<u>Compliance provisions</u>	Appendix B page 15
40 CFR 60.756	<u>Monitoring of operations</u>	Appendix B page 18
40 CFR 60.757	<u>Reporting requirements</u>	Appendix B page 19
40 CFR 60.758	<u>Record keeping requirements</u>	Appendix B page 22
40 CFR 60.759	<u>Specifications for active collection systems</u>	Appendix B page 24

Subsection B. This section addresses the following emissions unit(s).

<u>E.U. ID No.</u>	<u>Brief Description</u>
-002	Refractory-walled air curtain incinerator

The following conditions apply to the emissions unit(s) listed above:

B1. This incinerator is subject to the requirements of 40 CFR Part 60, Subpart CCCC, Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction is Commenced After November 30, 1999, or for Which Modification or Reconstruction is Commenced on or After June 1, 2001. The applicable sections of 40 CFR Part 60, Subpart CCCC are provided with this permit as Appendix C.
[Rule 62-204.800(7)(b)7.4., F.A.C.]

B2. The maximum permitted combustion rate is 25,000 tons, per consecutive 12 months, updated monthly.
[Rule 62-210.200, (Potential to emit, PTE), F.A.C. and air construction permit 0830124-003-AC]

B3. The following dimensions for the pit must be strictly adhered to:

a. No more than 12 feet wide, between 8 and 15 feet deep, and no longer than the length of the manifold.
[Rule 62-296.40(7)(d), F.A.C.]

b. The pit shall not be dug within a previously active portion of the landfill.
[Rule 62-296.40(7)(d), F.A.C.]

B4. The following operational conditions for the air curtain incinerator must be adhered to:

a. The only materials that can be burned in the air curtain incinerator are wood wastes, consisting of trees, logs, large brush, stumps relatively free of soil, unbagged leaves and yard trash, tree surgeon debris, and clean dry lumber such as pallets;
[Rule 62-296.40(7)(e), F.A.C.]

b. The burning of sawdust, paper, trash, tires, garbage, plastics, liquid wastes, chemically treated or painted wood, and other similar materials is expressly prohibited;
[Rule 62-296.40(7)(f), F.A.C.]

c. Only virgin oil, natural gas, or liquefied petroleum gas may be used to start the fire. The use of waste oil, chemicals, gasoline, or tires is expressly prohibited;
[Rule 62-296.40(7)(g), F.A.C.]

d. In no case shall an air curtain incinerator be started before sunrise. For refractory lined air curtain incinerators, charging must have completely stopped before sunset. For all other air curtain incinerators, charging must have completely stopped two hours before sunset.
[Rule 62-296.40(7)(h), F.A.C.]

e. The air curtain incinerator must be located at least 300 feet from any pre-existing occupied building located off site.
[Rule 62-296.40(7)(j), F.A.C.]

Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers

Abbreviations and Acronyms:

°F:	Degrees Fahrenheit
BACT:	Best Available Control Technology
CFR:	Code of Federal Regulations
DEP:	State of Florida, Department of Environmental Protection
DARM:	Division of Air Resource Management
EPA:	United States Environmental Protection Agency
F.A.C.:	Florida Administrative Code
F.S.:	Florida Statute
ISO:	International Standards Organization
LAT:	Latitude
LONG:	Longitude
MMBtu:	million British thermal units
MW:	Megawatt
ORIS:	Office of Regulatory Information Systems
SOA:	Specific Operating Agreement
UTM:	Universal Transverse Mercator

Citations:

The following examples illustrate the methods used in this permit to abbreviate and cite the references of rules, regulations, guidance memorandums, permit numbers, and ID numbers.

Code of Federal Regulations:

Example: [40 CFR 60.334]

Where:	40	reference to	Title 40
	CFR	reference to	Code of Federal Regulations
	60	reference to	Part 60
	60.334	reference to	Regulation 60.334

Florida Administrative Code (F.A.C.) Rules:

Example: [Rule 62-213, F.A.C.]

Where:	62	reference to	Title 62
	62-213	reference to	Chapter 62-213
	62-213.205	reference to	Rule 62-213.205, F.A.C.

ISO: International Standards Organization refers to those conditions at 288 degrees K, 60 percent relative humidity, and 101.3 kilopascals pressure.

Identification Numbers:

Facility Identification (ID) Number:

Example: Facility ID No.: 1050221

Where:

105 = 3-digit number code identifying the facility is located in Polk County
0221 = 4-digit number assigned by state database.

Permit Numbers:

Example: 1050221-002-AV, or
1050221-001-AC

Where:

AC = Air Construction Permit
AV = Air Operation Permit (Title V Source)
105 = 3-digit number code identifying the facility is located in Polk County
0221 = 4-digit number assigned by permit tracking database
001 or 002 = 3-digit sequential project number assigned by permit tracking database

Example: PSD-FL-185
PA95-01
AC53-208321

Where:

PSD = Prevention of Significant Deterioration Permit
PA = Power Plant Siting Act Permit
AC = old Air Construction Permit numbering