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

DRAFT PERMIT

PERMITTEE

Orange County Utilities Solid Waste Division
5901 Young Pine Road
Orlando, Florida 32829

Authorized Representative:
Mr. James W. Becker, Manager

Air Permit No. 0950113-007-AC
Permit Expires: 12/31/2013
Site Name: Orange County Landfill
Major Source Air Construction Permit
Project Name: Landfill Gas Collection System and Candlestick Flare

This is the final air construction permit, which authorizes construction of a Landfill Gas Collection System (Cell 2) and Candlestick Flare. The proposed work will be conducted at the Orange County Landfill (Standard Industrial Classification No. 4953). The facility is located in Orange County at 5901 Young Pine Road in Orlando, Florida. The UTM coordinates are Zone 17, 481.20 km East, and 3150.30 km North.

This final permit is organized by the following sections:

Section 1. General Information

Section 2. Administrative Requirements

Section 3. Facility-wide and Emissions Unit Specific Conditions

Section 4. Appendices

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

This air pollution permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000) and by filing a copy of the notice of appeal accompanied by

the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in Orange County, Florida

DRAFT **October 8, 2012**

_____ _____

Caroline D. Shine Date
District Air Program Administrator
Central District

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination, the Final Permit and the Appendices) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on **October 8, 2012** to the persons listed below:

Mr. James W. Becker, Orange County Utilities Solid Waste Division (**Jim.Becker@ocfl.net**)
Mr. James Flynt Jr., P.E., Orange County Utilities Solid Waste Division (**James.Flynt@ocfl.net**)
Mr. Curtis Hartog, P.E., Foth Infrastructure and Environment **(curt.hartog@foth.com)**
Ms. Jodi Dittell, Air Program Administrator, OCEPD **(Jodi.Dittell@ocfl.net)**

Clerk Stamp

FILED, on this date, pursuant to Section 120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

DRAFT **October 8, 2012**

_____ _____

(Clerk) (Date)

FACILITY AND PROJECT DESCRIPTION

Orange County Landfill

This facility is a municipal solid waste disposal facility (landfill) that has been in operation since 1974. The facility consists of closed and active Class I and Class III landfill cells. The design capacity of the landfill is greater than 2.5 million megagrams by mass or 2.5 million cubic meters by volume. It is an active asbestos waste disposal site. There is no bioreactor at the landfill. Non-methane organic compound (NMOC) emissions are calculated to be equal to or greater than 50 megagrams per year. Landfill gas emissions are collected and controlled by a flare.

The existing facility consists of the following emissions units.

Facility ID No. 0950113	
ID No.	Emission Unit Description
001	Municipal Solid Waste Landfill with Candlestick Flare
002	Landfill Gas Collection System (Cells 9-12) with Candlestick Flare
003	Five (5) Emergency Generators

Project Description and Proposed Emission Units

This project authorizes construction of a landfill gas collection system for Cell 2 of the active Class III landfill, which will involve the installation of a new flare.

This project will add the following emissions unit.

Facility ID No. 0950113	
ID No.	Emission Unit Description
004	Landfill Gas Collection System (Cell 2) with Candlestick Flare

NOTE: *Please reference the Permit No., Facility ID, and Emission Unit ID in all correspondence, test report submittals, applications, etc.*

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility has no units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.
- The facility is subject to 40 CFR 60, Subpart A- General Provisions, 40 CFR 60, Subpart WWW- NSPS Municipal Solid Waste Landfill, 40 CFR 63, Subpart A- General Provisions, and 40 CFR 63, Subpart AAAA- NESHAP Municipal Solid Waste Facilities.

PERMIT HISTORY/AFFECTED PERMITS

The existing Title V Permit for the facility is Permit No. 0950113-006-AV.

SECTION 2. ADMINISTRATIVE REQUIREMENTS (DRAFT)

1. Permitting Authority: The permitting authority for this project is the Florida Department of Environmental Protection, Central District Air Resource Management Section. The Central District's mailing address and phone number is:

   Florida Department of Environmental Protection
   Central District Office
   Air Resource Management Section
   3319 Maguire Blvd., Ste. 232
   Orlando, FL 32803-3767
   Telephone: 407-897-4100

   All documents related to applications for permits shall be submitted to the above address.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Central District Air Resource Management Section (see above mailing address and phone number).

3. Appendices: The following Appendices are attached as part of this permit:

   a. Appendix A. Citation Formats and Glossary of Common Terms;
   b. Appendix B. General Conditions;
   c. Appendix C. Common Conditions;
   d. Appendix D. Common Testing Requirements;
   e. Appendix E. 40 CFR 60, Subpart A- General Provisions;
   f. Appendix F. 40 CFR 60, Subpart WWW- NSPS Municipal Solid Waste Landfills;
   g. Appendix G. 40 CFR 63, Subpart A- General Provisions; and
   h. Appendix H. 40 CFR 63, Subpart AAAA- NESHAP Municipal Solid Waste Facilities.

4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.

5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]

6. Modifications: Unless otherwise exempt by rule, the permittee shall not initiate any construction, reconstruction, or modification at the facility and shall not install/modify any pollution control device at the facility without obtaining prior authorization from the Department. Modification is defined as: Any physical change or changes in the method of operations or addition to a facility that would result in an increase in the actual emissions of any air pollutant subject to air regulations, including any not previously emitted, from any emission unit or facility.

[Rules 62-210.200 - Definition of "Modification" and 62-210.300(1)(a), F.A.C.]

7. Annual Operating Report: On or before **April 1** of each year, the permittee shall submit a completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility" (AOR) for the preceding calendar year. The report may be submitted electronically in accordance with the instructions received with the AOR package sent by the Department, or a hardcopy may be sent to the Compliance Authority.
[Rule 62-210.370(3), F.A.C.]

8. Application for Title V Air Operation Permit Revision: This permit authorizes construction or modification of the permitted emissions unit(s) and initial operation to determine compliance with Department rules. A Title V air operation permit revision is required for continued operation of the permitted emissions unit(s). The permittee shall apply for a Title V air operation permit revision at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation or commencing operation as modified. Commencing operation means setting into operation of any emissions unit for any purpose. To apply for a Title V air operation permit revision, the applicant shall submit the following:

   a. the appropriate permit application form *(see current version of Rule 62-210.900, F.A.C. (Forms and Instructions), and/or FDEP Division of Air Resource Management website at: http://www.dep.state.fl.us/air/)*;

   b. copies of the **initial** compliance test required by Specific Condition No. **A.6.**, if not previously submitted; and

   c. copies of the most recent two months of records/logs specified in Specific Condition No. **A.16.**

   [Rules 62-4.030, 62-4.050, 62-4.070(3), 62-4.090, 62-210.300(2), and 62-210.900, F.A.C.]

A. EU No. 004 – Landfill Gas Collection System (Cell 2) with Candlestick Flare

This section of the permit addresses the following emissions unit.

ID No.	Emission Unit Description
004	Landfill Gas Collection System (Cell 2) with a Candlestick Flare

PERFORMANCE RESTRICTIONS

A.1. Federal Regulatory Requirements: This emission unit is subject to 40 CFR 60 Subpart A–General Provisions (See Appendix E) and 40 CFR 60 Subpart WWW–NSPS Municipal Solid Waste Landfills (See Appendix F) and 40 CFR 63, Subpart A–General Provisions (See Appendix G) and 40 CFR 63, Subpart AAAA– NESHAP Municipal Solid Waste Facilities (See Appendix H), which is adopted by reference in Rule 62-204.800, F.A.C. **The conditions are incorporated into this permit.**
[Rule 62-204.800(8) and (11), F.A.C.]

A.2. Permitted Capacity: The maximum landfill gas flow rate to the candlestick flare shall not exceed 1,400 scfm.
[Permit Application dated 08/16/2012 and Rule 62-210.200(PTE), F.A.C.]

A.3. Methods of Operation: Landfill gas must be flared in accordance with the requirements of 40 CFR 60, Subpart WWW.
[Rule 62-210.200(PTE), F.A.C.; 40 CFR 60 Subpart WWW, §60.753]

A.4. Restricted Operation: The hours of operation are not limited (8760 hours per year).
[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

A.5. Visible Emissions (VE) Standard: Flares shall be 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, Subpart A, §60.18(c)(1)]

TESTING REQUIREMENTS

A.6. **Initial** Compliance Test: The emissions unit shall be tested to demonstrate initial compliance with the emissions standards for visible emissions. The initial test shall be conducted within 60 days after achieving maximum operation rate at which the flare will be operated, but not later than 180 days after initial startup of the flare.
[40 CFR 60, Subpart A, §60.8 (a), Rules 62-4.070(3) and 62-297.310(7)(a)1, F.A.C.]

A.7. Compliance Tests After Initial Testing: During each federal fiscal year (October 1st to September 30th), EU 004 shall be tested to demonstrate compliance with the emissions standards for visible emissions specified in Specific Condition **A.5.**

[Rule 62-297.310, F.A.C.]

A.8. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit.
[Rule 62-297.310, F.A.C.]

A.9. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

EPA Method	Description of Method and Comments
22	Visual Determination of Fugitive Emissions from Material Sources and Smoke Emissions from Flares–The observation period is two (2) hours and shall be used according to this method.

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.401, F.A.C.; and Appendix A of 40 CFR 60]

MONITORING REQUIREMENTS

A.10. Monitoring of Operations: Each owner or operator using an open flare shall install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment:

(1) A heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame.

(2) A device that records flow to or bypass of the flare. The owner or operator shall either:

(i) Install, calibrate, and maintain a gas flow rate measuring device that shall record the flow to the control device at least every 15 minutes; or

(ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.

[40 CFR 60.18(b) through (f); 40 CFR 60, Subpart WWW, §60.756(c)]

NOTIFICATION REQUIREMENTS

A.11 Notification of the Date of Commencing Construction of EU No. 004: The permittee shall notify the Compliance Authority in writing of the date of commencing construction of **EU No. 004**, postmarked no later than thirty days (30) days after such date.

[40 CFR 60, Subpart A, §60.7 (a)(1) and Rule 62-4.070, F.A.C]

A.12. Notification of the Actual Date of Initial Startup: The permittee shall notify the Compliance Authority in writing of the actual date of initial startup of **EU No. 004**, postmarked within 15 days after such date.
[40 CFR 60.7 (a)(3) and Rule 62-4.070, F.A.C.]

A.13. 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.]

RECORDS AND REPORTS

A.14. Test Reports: The permittee shall prepare and submit reports for all required tests specified in Specific Condition No. **A.6.** and **A.7.** of this permitting section, in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit.
[Rule 62-297.310(8), F.A.C.]

A.15. Operational Data: The permittee shall keep up-to-date, readily accessible continuous records of the flame or flare pilot flame monitoring specified under §60.756(c), and up-to-date, readily accessible records of all periods of operation in which the flame or flare pilot flame is absent.
[Rule 62-4.070(3), F.A.C.; 40 CFR 60, Subpart WWW, §60.758(c)(4)]

A.16. Monthly Log: In order to demonstrate compliance with Specific Condition No. **A.2.,** the permittee shall maintain a monthly log at the facility for a period of at least five (5) years from the date the data is recorded, containing the following:

a. Date of record (Month/Day/Year); and
b. Hourly landfill gas flow rate to the flare.

[Rule 62-4.070(3), F.A.C.]

A.17. Record Retention: The permittee shall keep for **five (5) years** up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in §60.756 as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded.
[Rule 62-4.070(3), F.A.C.; 40 CFR 60, Subpart WWW, §60.758(c)]