

## PERMITTEE

Miami-Dade County Department of  
Solid Waste Management  
2525 Northwest 62<sup>nd</sup> Street, 5<sup>th</sup> Floor  
Miami, Florida 33147

*Authorized Representative:*

Mr. Tom Morello, Facility Manager  
Veolia Environmental Services

DEP File No. 0250348-008-AC (PSD-FL-008F)  
Miami-Dade County Resource Recovery Facility  
Facility ID No. 0250348  
SIC No. 4953  
Carbon Monoxide Emissions Limit  
Permit Expires: March 31, 2008

## PROJECT AND LOCATION

This permit authorizes the increase of carbon monoxide (CO) emissions from the four refuse derived fuel (RDF) spreader stoker combustors at the Miami-Dade County Resource Recovery Facility located at 6990 Northwest 97<sup>th</sup> Avenue, Miami, Florida.

## STATEMENT OF BASIS

This air pollution construction 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.) and Title 40, Parts 60 and 63 of the Code of Federal Regulations (CFR). The permittee is authorized to operate the equipment in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department of Environmental Protection (Department).

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Joseph Kahn, Director  
Division of Air Resource  
Management

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(Date)

## SECTION 1. GENERAL INFORMATION

### FACILITY AND PROJECT DESCRIPTION

The Miami-Dade County Department of Solid Waste Management is the permittee for the Miami-Dade County Resource Recovery Facility. The facility is operated for the permittee by Veolia Environmental Services.

The plant consists of four identical Zurn Refuse Derived Fuel (RDF) Spreader Stoker Combustion Units 1 thru 4, with auxiliary burners, and a cooling tower. The facility's primary activities are: garbage and trash receiving and processing (including a metals recovery system); fuel handling and storage; biomass production and export; refuse derived fuel (RDF), natural gas, and propane combustion; ash storage and processing, including a monofill ash landfill; and maintaining ancillary support equipment.

The facility previously upgraded its air pollution control system pursuant to the requirements of 40 Code of Federal Regulations (CFR) 60, Subpart Cb - Emissions Guidelines and Compliance Schedules for Municipal Waste Combustors That Are Constructed on or Before September 20, 1994. Those modifications included changes to the overfire air system, fuel feed system, and associated fuel distribution system. The electrostatic precipitators were replaced with fabric filters, spray dryer absorbers and activated carbon injection units. A selective non-catalytic reduction system was also installed.

The mentioned Subpart Cb was revised on May 10, 2006 by the United States Environmental Protection Agency. One of the changes in the revised Subpart Cb increases the carbon monoxide (CO) emission limit from 200 to 250 parts per million by volume, dry basis, and at 7 percent oxygen (ppmvd @ 7% O<sub>2</sub>). The class of combustors affected by the CO rule is "semi-suspension refuse-derived fuel-fired combustor/wet refuse-derived fuel process conversion."

This permit implements the change and establishes it as an applicable requirement to be incorporated in the facility Title V air operation permit.

ID	Emission Unit Description
001	RDF Spreader Stoker Combustor & Auxiliary Burners
002	RDF Spreader Stoker Combustor & Auxiliary Burners
003	RDF Spreader Stoker Combustor & Auxiliary Burners
004	RDF Spreader Stoker Combustor & Auxiliary Burners

### REGULATORY CLASSIFICATION

The facility is a major source of hazardous air pollutants (HAP).

The facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.

The facility is a major stationary source (PSD-major source) in accordance with Rule 62-212.400, F.A.C.

The facility operates units subject to the Standards of Performance for New Stationary Sources pursuant to 40 Code of Federal Regulations (CFR) Part 60.

Units 1, 2, 3 and 4 are not subject to the National Emissions Standards for Hazardous Air Pollutants pursuant to 40 CFR Part 63.

The facility was certified pursuant to the power plant siting provisions of Chapter 62-17, F.A.C.

## SECTION 1. GENERAL INFORMATION

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### RELEVANT DOCUMENTS

The following relevant documents are not a part of this permit, but helped form the basis for this permitting action: the permit application and additional information received to make it complete; and the Department's Technical Evaluation and Preliminary Determination.

## SECTION 2. ADMINISTRATIVE REQUIREMENTS

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1. Permitting Authority: The Permitting Authority for this project is the Bureau of Air Regulation in the Division of Air Resource Management of the Department. The mailing address for the Bureau of Air Regulation is 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Southeast District Office. The mailing address and phone number of the Southeast District Office is: 400 North Congress Avenue, West Palm Beach, Florida 33401; (561)681-6600 and (561)681-6755 (fax).
3. Appendices: The following Appendix is attached as part of this permit: Appendix GC (General Conditions).
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: No emissions unit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
7. Title V Permit: This permit authorizes specific modifications and/or new construction on the affected emissions units as well as initial operation to determine compliance with conditions of this permit. A Title V operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Title V operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after completing the required work and commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the Bureau of Air Regulation with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

### SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

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#### EMISSIONS UNITS SPECIFIC CONDITIONS

1. General Conditions: The owner and operator are subject to, and shall operate under the attached General Permit Conditions listed in Appendix GC of this permit. General Permit Conditions are binding and enforceable pursuant to Chapter 403 of the Florida Statutes. [Rule 62-4.160, F.A.C.]

#### APPLICABLE STANDARDS AND REGULATIONS

2. Unless otherwise indicated in this permit, the construction and operation of the subject emission unit(s) 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 Florida Administrative Code Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297.
3. Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting requirements or regulations. [Rule 62-210.300, F.A.C.]
4. The facility is subject to all of the requirements specified in Title V Air Operation Permit No. 0250348-005-AV except for the CO limit as referenced below.

#### EMISSION LIMITS AND STANDARDS

5. Carbon Monoxide (CO): The emission limits for CO contained in the gases discharged to the atmosphere per emissions unit are 250 parts per million by volume, measured at the combustor outlet in conjunction with a measurement of oxygen concentration, corrected to 7 percent O<sub>2</sub>, dry basis (ppmvd), calculated as a 24-hour block average, geometric mean; and 267.7 tons/yr.

[Applicant Request; 40 CFR 60.34b(a) (revision of May 10, 2006)]

{Permit Note: this action affects the previous limit of 200 ppmvd given in Specific Condition 1.A.(CO) of permit PSD-FL-006(D) and Specific Condition B.36 of the facility Title V Operation Permit No. 0250348-005-AV.}

#### OTHER REQUIREMENTS

6. CO Compliance: Refer to the Title V Operation Permit and to 40 CFR 60, Subpart Cb for the requirements and procedures related to compliance, continuous emissions monitoring system, excess emissions and recordkeeping for all pollutants including CO.

#### SECTION 4. APPENDIX GC – GENERAL CONDITIONS

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The permittee shall comply with the following general conditions from Rule 62-4.160, F.A.C.

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:
  - a. Have access to and copy and records that must be kept under the conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - a. A description of and cause of non-compliance; and
  - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

#### SECTION 4. APPENDIX GC – GENERAL CONDITIONS

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The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
  - a. Determination of Best Available Control Technology (not applicable to project);
  - b. Determination of Prevention of Significant Deterioration (not applicable to project); and
  - c. Compliance with New Source Performance Standards (CO limit).
14. The permittee shall comply with the following:
  - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
  - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application or this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
  - c. Records of monitoring information shall include:
    - 1) The date, exact place, and time of sampling or measurements;
    - 2) The person responsible for performing the sampling or measurements;
    - 3) The dates analyses were performed;
    - 4) The person responsible for performing the analyses;
    - 5) The analytical techniques or methods used; and
    - 6) The results of such analyses.
15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.