PERMITTEE:

Lee County
Post Office Box 398
Fort Myers, Florida 33902-0398

Authorized Representative:
Lindsey J. Sampson
Director, Solid Waste Division

Lee County Resource Recovery Facility
Unit 3 MWC and Lime Silo
DEP File No. 0710119-005-AC
PSD-FL-151D
Expires: December 31, 2007

PROJECT AND LOCATION

This permit incorporates all conditions from the latest air construction permit (PSD-FL-151C, 0710119-002-AC) and extends the expiration date by one calendar year. The permit authorizes construction of a third municipal waste combustor, and a lime storage silo and associated equipment at the existing resource recovery facility. The municipal waste combustion unit will not exceed a nominal tonnage capacity of 660 tons per day and maximum heat input of 291.5 million Btu per hour. The facility is located at 10500 Buckingham Rd., Fort Myers, Lee County.

STATEMENT OF BASIS

This 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 perform the proposed work 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). This permit supplements all other air construction and operation permits for the affected emissions units and does not alter any requirements from such previously issued air permits.

The following Appendices are attached as part of this permit.

Final Permit	PSD-FL-151C
Appendix BD	BACT Determination Summary
Appendix GC	General Conditions

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Joseph Kahn, Director
Division of Air Resource Management

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FACILITY DESCRIPTION

The existing facility consists of a municipal waste combustion plant with two mass burn municipal waste combustion units. The facility currently has a capacity of 660 tons/day per unit for a total of 1,320 tons per day of solid waste fuel with a nominal higher heating value of 5,000 Btu per pound. This is equal to a maximum heat input of 275 million Btu per hour per unit, for a total heat input not to exceed 550 million Btu per hour. The facility converts solid waste into saleable energy. It produces up to 40 megawatts of electricity. The facility is self-sufficient and operates on a small portion of the power it generates. The remaining electricity is sold to an electric utility market. The facility is owned by Lee County, and was designed, built and is currently operated by Ogden-Martin Systems of Lee, Inc. (although the corporate name changed to Covanta Energy Corporation, effective March 14, 2001). The Lee County Resource Recovery Facility began operation in August 1994.

The facility's existing mass burn combustion system incorporates the technology of German-based Martin GmbH. The waterwall furnaces are equipped with Martin® reverse-reciprocating grates and ash handling systems. Waste is combusted and reduced to an inert ash residue. Each existing unit is equipped with a slaked lime scrubber followed by a baghouse, a selective non-catalytic reduction system for reduction of nitrogen oxide emissions, and a carbon injection system for control of mercury emissions.

PROJECT DESCRIPTION

This permit extends the expiration date of the previously issued permit (No. PSD-FL-151C, 0710119-002-AC) which allowed the applicant to construct a third municipal waste combustion unit (Unit 3), which is substantially similar to the existing two units. Unit 3 will have additional controls in order to comply with the more stringent New Source Performance Standards and Best Available Control Technology limits. The new municipal waste combustion unit will not exceed a nominal tonnage capacity of 660 tons per day and maximum heat input of 291.5 million Btu per hour. Accordingly, as a large municipal waste combustor, this unit is subject to the requirements of 40 CFR 60, Subpart Eb. Dry flue gas scrubbers, baghouse, selective non-catalytic reduction, and carbon injection will be utilized to control emissions from the combustor. Flue gas recirculation is authorized but not required. The existing facility also contains existing lime silo and ash handling systems, which will be impacted via increased throughput of the new unit. An additional lime silo will be constructed, which stores pebble lime, used to make lime slurry.

EMISSIONS UNITS

This permit addresses the following emissions units:

EU ID	Emissions Unit Description
006	Unit 3 660 Tons per day nominal MSW Incinerator
007	Lime Silo

REGULATORY CLASSIFICATION

Title I, Part C, Clean Air Act: The facility is a PSD-major facility pursuant to Rule 62-212, F.A.C.

Title I, Section 111, CAA: Unit 3 is subject to the New Source Performance Standards of 40 CFR 60, Subpart Eb-Standards of Performance for Large Municipal Waste Combustors for Which Construction is Commenced After September 20, 1994.

Title I, Section 112, CAA: The facility is a "Major Source" of hazardous air pollutants.

Title IV, CAA: The facility does not operate units subject to the Acid Rain provisions of the Clean Air Act.

Title V, CAA: The facility is a Title V or "Major Source of air pollution" in accordance with Chapter 62-213, F.A.C.

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PERMITTING AUTHORITY

All documents related to applications for permits to construct, operate or modify an emissions unit shall be submitted to the Bureau of Air Regulation of the Florida Department of Environmental Protection at 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400. Copies of all such documents shall also be submitted to the Compliance Authority.

COMPLIANCE AUTHORITY

All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Department of Environmental Protection South District Office at 2295 Victoria Avenue, Suite 364, Fort Myers, Florida 33901-3881.

RELEVANT DOCUMENTS

The documents listed below are not a part of this permit; however, this information is specifically related to the permitting action and is on file with the Department.

- Lee County Letter dated January 16, 2007.
- Department's Final Determination issued concurrently with this Final Permit.

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SECTION II. ADMINISTRATIVE REQUIREMENTS

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

2. Applicable Regulations, Forms and Application Procedures: Unless otherwise indicated in this permit, the construction and operation of the subject emissions unit shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403 of the Florida Statutes (F.S.); Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.); and the Title 40, Parts 51, 52, 60, and 63 of the Code of Federal Regulations (CFR), adopted by reference in Rule 62-204.800, F.A.C. The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C. and follow the application procedures in Chapter 62-4, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations. [Rules 62-204.800, 62-210.300 and 62-210.900, F.A.C.]

3. 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.]

4. Permit Expiration: For good cause, the permittee may request that this PSD air construction permit be extended. Such a request shall be submitted to the Department's Bureau of Air Regulation at least sixty (60) days prior to the expiration of this permit. [Rules 62-4.080(3), F.A.C]

5. PSD Source Obligation:

   a. Authorization to construct shall expire if construction is not commenced within 18 months after receipt of the permit, if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time. This provision does not apply to the time period between construction of the approved phases of a phased construction project except that each phase must commence construction within 18 months of the commencement date established by the Department in the permit.

   b. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

   c. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

   [Rule 62-212.400(12), F.A.C.]

6. Modifications: No emissions unit or facility subject to this permit 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. [Chapters 62-210 and 62-212, F.A.C.]

7. Title V Permit: This permit authorizes construction or modification of the permitted emissions units and initial operation to determine compliance with Department rules. A Title V operation permit is required for regular operation of the permitted emissions units. 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 commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results,

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and such additional information as the Department may by law require. The application shall be submitted to the Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220 and Chapter 62-213, F.A.C.]

8. Annual Operating Report: The Annual Operating Report shall be completed each year and submitted to the appropriate DEP division, district or DEP-approved local air pollution control program office by March 1st of each year. Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C. [Rule 62-210.370, F.A.C.]

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EU 006 and 007 MSW Incinerator and Lime Silo

This section of the permit addresses the following existing emissions units.

EU ID	Emissions Unit Description
006	Unit 3 660 Tons per day nominal MSW Incinerator
007	Lime Silo

ADMINISTRATIVE REQUIREMENTS

1. Relation to Other Permits: This permit supersedes permit, PSD-FL-151C (0171119-002-AC), dated October 13, 2003. The provisions of the air construction permit PSD-FL-151C, attached, are incorporated into this air construction permit with no changes except the expiration date is extended to December 31, 2007. [Rule 62-212.300, F.A.C.]

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