FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
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PERMITTEE

Solid Waste Authority of Palm Beach County
7501 North Jog Road
West Palm Beach, FL 33412

Authorized Representative:
Mark Hammond, Executive Director

Final Permit No. 0990234-029-AC
North County Regional Resource Recovery Facility

Project: Replacement of the Existing Emergency Generator at the NCRRF Scalehouse

Expires: August 1, 2015
Palm Beach County

PROJECT

This is the final air construction permit, which authorizes the replacement of the existing emergency generator at the North County Regional Resource Recovery Facility (NCRRF) Scalehouse (E.U. ID No. 037) with a new emergency generator.

The proposed work will be conducted at the existing North County Regional Resource Recovery Facility, which is a municipal solid waste (MSW) facility categorized under Standard Industrial Classification Number (No.) 4953. The existing facility is located in Palm Beach County at 7501 North Jog Road in West Palm Beach, Florida. The UTM coordinates are Zone 17, 585.3 kilometers (km) East, and 2961.7 km North.

This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); and Section 4 (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix CF of Section 4 of this permit. [(if applicable) As noted in the Final Determination provided with this final permit, only minor changes and clarifications were made to the draft permit.]

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.). 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. A copy of this permit modification shall be filed with the referenced permit and shall become part of the permit.

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 Tallahassee, Florida

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for Jeffery F. Koerner, Program Administrator
Office of Permitting and Compliance
Division of Air Resource Management

JFK/sa/sms

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination and Final Permit) 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 the date indicated below to the persons listed below.

Mr. Mark Hammond, Executive Director, SWA of PBC: mhammond@swa.org
Ms. Marybeth Morrison, SWA of PBC: mmorrison@swa.org
Mr. Kennard F. Kosky, P.E., Golder Associates, Inc.: ken_kosky@golder.com
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Ms. Lynn Scearce, DEP OPC: lynn.scearce@dep.state.fl.us

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.

Lynn Scearce
2013.08.26 10:21:05 -04'00'

FACILITY DESCRIPTION

The *existing* facility consists of the following emissions units (E.U.):

Facility ID No. 0990234	
E.U. ID No.	**E.U. Brief Description**
001	Municipal Solid Waste Boiler No. 1
002	Municipal Solid Waste Boiler No. 2
004	Class III Landfill with Flare
005	Refuse Derived Fuel (RDF) Storage
006	RDF Processing Lines
007	Oversized Bulky Waste (OBW) Processing Lines
008	Class I Landfill with Flare
010	Sludge Dryer Train No. 1
011	Sludge Dryer Train No. 2
012	Recycle Material Bin and Pellet Storage Silo for Train No. 1
013	Cooling Tower Train No. 1
014	Recycle Material Bin and Pellet Storage Silo for Train No. 2
015	Cooling Tower Train No. 2
016	Emergency Generator
017	Woody Waste Facility Diesel Engine
018	Cooling Tower
019	Ash Building and Handling System
021	Emergency Generator, 220 brake-horsepower (bhp), EPA Tier III Certified
023	Powdered Activated Carbon Silo with Baghouse
035-044	Engines

PROPOSED PROJECT

The applicant applied on July 17, 2013, to the Department for a minor source air construction permit. The minor source air construction permit is for the replacement of the existing emergency generator at the North County Regional Resource Recovery Facility (NCRRF) Scalehouse (E.U. ID No. 037) with a new emergency generator.

This project will consist of the following emissions units (E.U.):

Facility ID No. 0990234	
E.U. ID No.	**E.U. Brief Description**
037	Emergency Generator - NCRRF Scalehouse Caterpillar® Model D60-8S Emergency Diesel Generator, 88.5 bhp (EPA Tier 3 certified)

FACILITY REGULATORY CLASSIFICATION

- The existing facility is a major source of HAP.
- The existing facility is not subject to the acid rain provisions of the Clean Air Act (CAA).
- The existing facility is a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The existing facility is a major stationary source in accordance with Rule 62-212.400 (PSD), F.A.C.

- The proposed project is not a modification of a major stationary source in accordance with Rule 62-212.400 (PSD), F.A.C.
- The proposed project is subject to New Source Performance Standards (NSPS) under Section 111 of the CAA and National Emissions Standards for Hazardous Air Pollutants (NESHAP) under Section 112 of the CAA which are incorporated by reference in Chapter 62-204.800, F.A.C.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Office of Permitting and Compliance, Division of Air Resource Management, Florida Department of Environmental Protection (Department). The mailing address for the Office of Permitting and Compliance 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 Department's Southeast District Office at: Air Resource Section, 400 North Congress Avenue, Suite 200, West Palm Beach, FL 33401.

3. Appendices: The following Appendices are attached as a part of this permit and the permittee must comply with the requirements of the appendices:

Appendix A	Identification of General Provisions - NSPS 40 CFR 60, Subpart A;
Appendix A1	General Provisions - NESHAP 40 CFR 63, Subpart A;
Appendix CC	Common Conditions;
Appendix CF	Citation Formats and Glossary of Common Terms;
Appendix CTR	Common Testing Requirements;
Appendix GC	General Conditions;
Appendix IIII	NSPS, Subpart IIII – Stationary Compression Ignition Internal Combustion Engines; and,
Appendix ZZZZ	NESHAP, Subpart ZZZZ – Stationary Reciprocating Internal Combustion Engines (RICE).

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. 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.]

8. 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 appropriate Permitting Authority with copies to Southeast District of DEP. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

9. Objectionable Odors Prohibited: No person shall 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.]

   {Note: An objectionable odor is defined in Rule 62-210.200(Definitions), F.A.C., as 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.}

10. Unconfined Emissions of 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. Any permit issued to a facility with emissions of unconfined particulate matter shall specify the reasonable precautions to be taken by that facility to control the emissions of unconfined particulate matter. General reasonable precautions include the following: a. Paving and maintenance of roads, parking areas and yards; b. Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing; c. Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities; d. Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent re-entrainment, and from buildings or work areas to prevent particulates from becoming airborne; e. Landscaping or planting of vegetation; f. Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter; g. Confining abrasive blasting where possible; and h. Enclosure or covering of conveyor systems.
    [Rule 62-296.320(4)(c), F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Emergency Generator - NCRRF Scalehouse (E.U. ID No. 037)

This section of the permit addresses the following emissions unit.

E.U. ID No.	E.U. Brief Descriptions
037	Emergency Generator - NCRRF Scalehouse Caterpillar® Model D60-8S Emergency Diesel Generator, 88.5 bhp (EPA Tier 3 certified)

NSPS AND NESHAP APPLICABILITY

1. NSPS Subpart IIII Applicability: This emergency generator is a Stationary Compression Ignition Internal Combustion Engine (Stationary ICE) and shall comply with applicable provisions of 40 CFR 60, Subpart IIII, including emission testing or certification. [40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.]

2. NESHAPS Subpart ZZZZ Applicability: The emergency generator is a Liquid Fueled Reciprocating Internal Combustion Engine (RICE) and shall comply with applicable provisions of 40 CFR 63, Subpart ZZZZ. Pursuant to 40 CFR 63.6590(c) the generators must meet the requirements of Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart IIII. [40 CFR 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE).]

EQUIPMENT

3. Emergency Generator: The permittee is authorized to install, operate and maintain one 60 kW emergency generator with a maximum stationary diesel engine design rating of 66 kW power output (rated at 88.5 bhp) or smaller. [Application No. 0990234-029-AC; and Rule 62-210.200 (Definitions - Potential to Emit (PTE)), F.A.C.]

PERFORMANCE RESTRICTIONS

4. Hours of Operation: The emergency generator may operate up to 100 hours per year for maintenance and testing purposes, which includes up to 50 hours per year in non-emergency situations. [Application No. 0990234-029-AC; and, Rule 62-210.200 (PTE), F.A.C.]

5. Authorized Fuel: The emergency generator shall fire ultra-low-sulfur diesel fuel (ULSD) fuel oil. The ULSD fuel oil shall contain no more than 0.0015% sulfur by weight. [Application No. 0990234-029-AC; and, Rule 62-210.200 (PTE), F.A.C.]

EMISSION STANDARDS & LIMITS

6. Emissions Standards & Limits: The stationary diesel engine shall comply with the following emission standards & limits and demonstrate compliance in accordance with the procedures given in NSPS 40 CFR 60, Subpart IIII. Manufacturer certification can be provided to the Department in lieu of actual stack testing.

Emergency Generator/Engine (< 30 liters/cylinder)	**CO** (g/kW-hr)[1]	lb/hr[2]	**PM** (g/kW-hr)	lb/hr[2]	**SO_2**[3] (% S)	lb/hr[2]	**NMHC**[4] **+ NOx** (g/kW-hr)	lb/hr[2]
Subpart IIII (2007 and later)	5.0	0.73	0.40	0.06	0.0015	0.0006	4.7	0.22 + 0.68

[1] g/kW-hr means grams per kilowatt-hour.
[2] Equivalent lb/hr.
[3] SO_2 emission standard will be met by using ULSD fuel oil in the emergency generator with fuel sulfur (S) content of 0.0015% by weight.
[4] NMHC means non-methane hydrocarbons.

[Application No. 0990234-029-AC; 40 CFR 60, Subpart IIII; and, Rule 62-210.200 (PTE), F.A.C.]

RECORDS AND REPORTS

7. Notification, Recordkeeping and Reporting Requirements: The permittee shall adhere to the compliance testing and certification requirements listed in 40 CFR 60.4211 and maintain records demonstrating fuel usage and quality. [40 CFR 60.4211.]