

Mission:

To protect, promote & improve the health of all people in Florida through integrated state, county & community efforts.



Rick Scott
Governor

John H. Armstrong, MD, FACS
State Surgeon General & Secretary

Vision: To be the Healthiest State in the Nation

SEPTEMBER 23, 2014
Electronic Correspondence
Richard.A.Lee@fpl.com

NOTICE OF AIR POLLUTION OPERATION PERMIT REVISION

PERMITTEE:

Richard Lee – Director, Materials Management
Florida Power & Light Company
2445 Port West Blvd.
West Palm Beach, FL 33407
(West Palm Beach Oil Storage Facility and Physical Distribution Center)

Air Permit No.: 0990123-014-AO
PALM BEACH COUNTY, FLORIDA

Project: Permit revision to modify details of the Bio-diesel Generator Manufacturer under EU006 to existing Permit No. 0990123-013-AO.

Dear Mr. Lee:

Enclosed is the [Revised Air Permit No. 0990123-014-AO](#) for the operation of an air pollution source located in Palm Beach County. **This permit revision is to change the manufacturer of the proposed 130 KW bio-diesel Generac emergency generator to the Caterpillar 150 KW bio-diesel generator (grouped in EU006 -- EXEMPT UNIT).** This permit revision is issued pursuant to Chapter 403.087 of the Florida Statutes (F.S.) and Chapters 62-4, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.).

The Florida Department of Environmental Protection (DEP) has permitting jurisdiction for this project pursuant to Section 403.087 of the Florida Statutes (F.S.). However, in accordance with Section 403.182, F.S., the DEP recognizes the Florida Department of Health Palm Beach County (Health Department) as the approved local air pollution control program in Palm Beach County. As such, the DEP and the Health Department have entered into a Specific Operating Agreement that authorizes the Health Department to issue or deny permits for this type of air pollution source located in Palm Beach County. Accordingly, the Health Department issues this permit under the provisions of Chapter 403, F.S. and Chapters 62-4, 62-210, and 62-212 of the Florida Administrative Code (F.A.C.).

A person whose substantial interests are affected by the Department's permitting decision may petition for an administrative hearing in accordance with sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Florida Department of Health Palm Beach County Legal Office, located at 800 Clematis Street in West Palm Beach, Florida, 33401 (Telephone: (561) 671-4000, Fax (561) 837-5195). Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this final permit. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the permitting authority's action is based must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

- (c) A statement of how and when each petitioner received notice of the agency action or proposed action;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief;
- (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and,
- (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the permitting authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this final permit. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation is not available for this action.

Any party to this Order (Permit) has the right to seek judicial review pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure with the Health Department at the address listed below 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 of Appeal must be filed within 30 days from the date this Order (Permit) is filed with the Clerk of the Health Department.

Executed in West Palm Beach, Florida
FLORIDA DEPARTMENT OF HEALTH - PALM BEACH COUNTY



James E. Stormer, Q.E.P., Environmental Administrator
Air & Waste Section
Division of Environmental Public Health

For any questions, contact:

Laxmana Tallam, P.E.
Air Permit Supervisor
Air & Waste Section
Department of Health Palm Beach County
P.O. Box 29 (800 Clematis Street)
West Palm Beach, Florida, 33402-0029

CERTIFICATE OF SERVICE

The undersigned duly designated agency clerk hereby certifies that the Notice of Permit Revision and the Final Revised Permit were sent by electronic mail (with received receipt) before the close of business on 9/23/14 to the permittee.

In addition, the undersigned duly designated deputy agency clerk hereby certifies that *copies* of these documents were sent by electronic email (with received receipt) on the same date to the following persons:

Diane Pupa
Southeast District Office - DEP
400 North Congress Avenue, 3rd Floor
West Palm Beach, Florida, 33401
Diane.Pupa@dep.state.fl.us

Mary Archer
Project Manager
Florida Power and Light Company
JES/JB, 700 Universe Blvd.
Juno Beach, FL 33408
Mary.Archer@fpl.com

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), F.S., with the designated agency Clerk, receipt of which is hereby acknowledged.



(Clerk)

9/23/14

(Date)

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SEPTEMBER 23, 2014
Electronic Correspondence
Richard.A.Lee@fpl.com

AIR POLLUTION OPERATION PERMIT MODIFICATION

ISSUED TO:

Permittee:

Florida Power & Light Company
2445 Port West Blvd.
West Palm Beach, FL 33407

ARMS No.:	0990123
Permit No.:	0990123-014-AO
Issued:	09/23/2014
Expires:	02/27/2016

Authorized Representative:

Richard A. Lee, Director, Materials Management

*Note: A renewal application must be submitted by **[December 27, 2015]**.*

PROJECT DESCRIPTION: This permit revision is to change the manufacturer of the proposed 130 KW GENERAC bio-diesel emergency generator to 150 KW Caterpillar bio-diesel generator (**grouped in EU006 -- EXEMPT UNIT**).

LOCATED AT:

Directions: Located on the southwest corner of I-95 and SR 710, Riviera Beach, Florida 33407
SIC: 4911 - Electric services
UTM: Zone 17; 589.7 km E ; 2961.2 km N; Lat. 26 Deg. 46' 08" N; Long. 80 Deg. 05' 49" W

STATEMENT OF BASIS:

The Florida Department of Health - Palm Beach County (Health Department) issues this permit under the provisions of Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4 through 62-297 the Florida Administrative Code (F.A.C.). The Florida Department of Environmental Protection (DEP) has permitting jurisdiction under Chapter 403.087, F.S. However, in accordance with Section 403.182, F.S., the DEP recognizes the Health Department as the approved local air pollution control program in Palm Beach County. The above named permittee is authorized to operate the facility in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Health Department.

ISSUED BY:

Executed in West Palm Beach, Florida
FLORIDA DEPARTMENT OF HEALTH - PALM BEACH COUNTY


James E. Stormer, Q.E.P., Environmental Administrator
Air & Waste Section
Division of Environmental Public Health

SECTION I. SUMMARY INFORMATION

FACILITY DESCRIPTION

The facility consists of various co-located operations conducted by the Florida Power and Light Company. The facility is classified as a synthetic non-Title V source of air pollution based on the design capacity of the equipment and the limits and restrictions of the federally-enforceable air pollution construction permits 0990123-001-AC and 0990123-006-AC.

Emissions Units 001 and 002 are regulated activities that are subject to emission limitations, recordkeeping and reporting requirements. The units include two small steam-generating units (12.5 mmBtu/hr, each) that are used to produce steam for a heat exchanger that warms fuel oil prior to transfer via an underground pipeline to either the Martin or Riviera Power Plants. Specific conditions of this permit limit the types and sulfur content of the allowable fuels as well as the potential sulfur dioxide emissions. These are existing units under the federal New Source Performance Standards (NSPS) and are not subject to the requirements of 40 CFR 60 Subpart Dc.

Emissions Unit 005 is a regulated activity that is subject to recordkeeping and reporting requirements as part of the synthetic minor status of the source. The activity includes the storage and handling of volatile organic liquids (VOL) such as Blended Bio-diesel, #2 Fuel Oil, #6 Fuel Oil, and Mineral Oil. The two 500,000 bbl tanks are existing units under the federal New Source Performance Standards (NSPS) and are not subject to the requirements of 40 CFR 60 Subpart K through Kb. The equipment and activities include the following:

- Two (2) 500,000 barrel Aboveground Storage Tank (AST) - #6 Fuel Oil, #2 Fuel Oil and Blended Bio-diesel.
- One (1) 5,000 barrel Aboveground Storage Tank (AST) -Mineral Oil
- One (1) 478 gallon Aboveground Storage Tank (AST) –Distillate Oil

Emissions Unit 006 comprises activities that are unregulated and are exempt sources of air pollution. The activities include the storage and handling of gasoline and diesel fuels, stationary and portable internal combustion engines, non-RACT surface coating activities, enclosed abrasive blasting, non-halogenated/non-RACT solvent cleaning, wood grinding (included in Table below).

Emission source/Activity	Located at
Laboratory Activities associated with Physical and Chemical Analyses [CSE bldg.]	Bldg M
One 110, 000 barrel Aboveground Storage Tank (AST) - Purge Tank; #2 Fuel Oil, #6 Fuel Oil and Blended Bio-diesel.	Martin Terminal
Two Fuel Dispensing Pumps (Gasoline & Diesel);	Fuel Island by Bldg A1
One 4,669 Gallon Dual Compartment Horizontal Aboveground Storage Tank (AST) - 1569 Gasoline and 3100 Diesel;	Fuel Island by Bldg A1 Yard Area
Three 6,0000 gallons AST – Used Mineral Oil	Bldg A
One 6,000 gallon Aboveground Storage Tank (AST) - Diesel Tank;	Customer Service Bldg M
Two 1,000 gallon Aboveground Storage Tank (AST) - Diesel Tank;	PDC Warehouse Bldg B
Two 500 gallon Aboveground Storage Tank (AST) - Diesel Tank ;	Radio Shop Bldg L/Bldg A
One 350 gallon Aboveground Storage Tank (AST) - Diesel Tank;	Corporate Records Bldg D
One 300 gallon Aboveground Storage Tank (AST) - Diesel Tank;	N/A
One 250 gallon Aboveground Storage Tank (AST) - Diesel Tank;	Martin Terminal
One 100 gallon Aboveground Storage Tank (AST) - Diesel Tank;	Radio Tower, Martin Terminal
Two 500 gallon Aboveground Storage Tank (AST) - Propane Tank;	Radio Shop Bldg L
One 120 gallon Aboveground Storage Tank (AST) - Propane Tank;	Non Destruction Examination Bldg F
One 1,250 kW Emergency Diesel Generator;	Customer Service Bldg M
One 400 kW Emergency Diesel Generator;	Administration Bldg
One 400 kW Emergency Diesel Generator; Manufactured in May of 2011 (Notification of a new generator (9/1/2011), 40 CFR Part 60 Subpart IIII)	Storm Command Center
One Caterpillar 150 kW Emergency Bio-Diesel Generator; Manufactured in January 2014, Tier III Certified. (40 CFR 60 Subpart IIII) [Revised 08/27/2014]	Martin Terminal Fueling Area
Two 200 kW Emergency Diesel Generators;	Bldg B2 PDC Warehouse/Bldg L Radio Shop
One 175 kW Emergency Diesel Generator;	Bldg D Corporate Records
One 150 kW Emergency Diesel Generator;	PDC Warehouse Bldg B "A"

SECTION I. SUMMARY INFORMATION

Emission source/Activity	Located at
One 125 kW Emergency Diesel Generator;	Warehouse Bldg B "B"
One 105 kW Emergency Diesel Generator;	Martin Terminal
One 100 kW Emergency Diesel Generator;	Martin Terminal
One 100 kW Emergency Propane Generator;	Radio Tower
One 65 kW Emergency Propane Generator;	PDC Nuclear NDE Lab Bldg F
Two 19 kW Emergency Propane Generators;	Bldg A-1
One 190 HP Diesel Fire Pump;	Martin Terminal
Four Enclosed Glass Bead Blast Machines;	
Non-RACT Surface Coating Operations (less than 6 gallons per day);	
Non-RACT/Non-Halogenated Solvent Cleaning (Parts Washers);	
Wood Grinding Operations	

Emissions Unit 007 wire reclaim furnace was shut down August 7th, 2006.

PERMIT HISTORY

- 02-15-78: Construction Permits (AC50-4803 and AC50-4804) issued for Boiler Nos. 1 and 2.
- 06-04-85: Operation Permit Renewal (AO50-104082) issued for Boiler Nos. 1 and 2.
- 04-19-90: Department issued renewal permits AO50-178226 and AO50-178227 for the two boilers.
- 01-05-95: Construction Permit (AC50-255516) issued for the Initial Wire Reclaim Furnace.
- 01-05-95: Air construction permit issued for the aluminum sweat furnace. (AC50-255517).
- 06-13-96: Construction permit (099-0123-001-AC) issued for reclassification to a synthetic (for SO2), non-Title V, minor source.
- 07-30-96: Operation Permit (099-0123-002-AO) issued incorporating 099-0123-001-AC.
- 11-30-95: Permit Modification (099-0123-003-AC) for the Aluminum Sweat Furnace (AC50-25517).
- 09-03-99: Construction Permit (099-0123-004-AC) for the Wire Reclaim Furnace (New Unit).
- 07-18-00: Permit Modification (099-0123-005-AC) for the Wire Reclaim Furnace (099-0123-004-AC).
- 12-05-00: Permit Modification (099-0123-006-AC) for the Wire Reclaim Furnace (099-0123-005-AC).
- 05-29-01: Operation Permit (099-0123-007-AO) issued to the facility.
- 05-03-06: Operation Permit Renewal (099-0123-008-AO) was issued.
- 02-18-11: Construction Permit (099-0123-009-AC) was issued.
- 02-18-11: Operation Permit Renewal (099-0123-010-AO) was issued.
- 09-30-11: Permit No. 099-0123-011-AO issued for adding a new 400kw Emergency Generator (Exempt)
- 12-14-11: Permit No. 0990123-012-AC was issued
- 08-21-13: Permit No. 0990123-013-AO was issued
- 07-15-14: Received request for permit modification to add 130kw Bio-Diesel Generac Emergency Generator (Exempt)
- 08-27-14: Received request for permit revision to replace the 130 kW Generac Bio-diesel generator with the Caterpillar 150 kW Bio-diesel Emergency Generator (Exempt)**

REGULATORY CLASSIFICATION

- Title III: The facility is not a major source of hazardous air pollutants (HAPs).
- Title IV: The facility will not operate units subject to the acid rain provisions of the Clean Air Act.
- Title V: The facility is not a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- RACT: The facility is not subject to RACT.
- PSD: The facility is not classified as a PSD minor source in accordance with RULE 62-212.400 F.A.C.
- NSPS: The facility is subject to the requirements of 40 CFR 60 Subpart IIII, "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines". (The 400 KW generator for the Storm Command Center and 150 KW Bio-diesel generator for the Martin Terminal Fueling Area)
- NESHAP: The facility is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ, "National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines", and 40 CFR 61, Subpart M, Asbestos.

SECTION I. SUMMARY INFORMATION

RULE APPLICABILITY

The facility is located in Palm Beach County, an area designated as “maintenance” for the pollutant ozone and attainment for all other criteria pollutants in accordance with Rule 62-204.340, F.A.C. The facility is not subject to review under Rule 62-212.400 F.A.C., Prevention of significant deterioration (PSD) because the new source is considered “minor” for the purpose of PSD regulations (having a potential to emit less than 100 tons per year of pollutant). The facility is subject to the following air pollution control provisions:

- F.A.C. Chapter 62-4 - Permitting Requirements
- F.A.C. Chapter 62-204 - Ambient Air Quality Requirements, PSD increments, and federal Regulations Adopted by Reference.
- F.A.C. Chapter 62-210 - Required Permits, Public Notice, Reports, Stack Height Policy, Circumvention, Excess Emissions, and Forms
- F.A.C. Chapter 62-212 - General Preconstruction Review Requirements, PSD Requirements.
- F.A.C. Chapter 62-296 - General Pollutant Emission Limiting Standards.
- F.A.C. Chapter 62-297 - Test Methods
- F.A.C. Chapter 62-256 - Open Burning and Frost Protection Fires.
- F.A.C. Chapter 62-257 - Asbestos Program

PERMIT CONTENT

- Section I: Facility Information
- Section II: Facility-Wide Specific Conditions
- Section III: Emissions Unit Specific Conditions
- Section IV: Appendices
 - Appendix A: General Permit Conditions*
 - Appendix B: Citation Format*
 - Appendix C: Test Procedures*
 - Appendix D: On-Specification Used Oil Fuel Requirements*

EMISSIONS UNITS SUMMARY

This permit addresses the following emissions units:

EMISSIONS UNIT No.	EMISSIONS UNIT DESCRIPTION
001	Fossil fuel-fired steam generating unit (boiler) with a design heat input of 12.5 mMBTU/hour
002	Fossil fuel-fired steam generating unit (boiler) with a design heat input of 12.5 mMBTU/hour
003	Shut Down – Wire Reclaim Furnace
004	Shut Down – Aluminum Sweat Furnace
005	Fuel Storage Tanks
006	Miscellaneous Support Equipment [exempt unit]
007	Shut Down – United Group Model W-3000-HT Wire Reclaim Furnace

SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

1.0 ADMINISTRATIVE

- 1.1 Regulating Agencies: All applications, reports, tests, and notifications shall be submitted to the Air and Waste Section of the Florida Department of Health - Palm Beach County (Health Department) at P.O. Box 29 (800 Clematis Street), West Palm Beach, Florida, 33402-0029, and phone number (561) 837-5900. **[Specific Operating Agreement]**
- 1.2 General Permit Conditions: The owner and operators shall be aware of, and operate under, the attached General Permit Conditions listed in **Appendix A** 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.]**
- 1.3 Citation Format: The format for citing applicable regulations is provided in **Appendix B** of this permit.
- 1.4 Application for Operation Permit: The permittee shall apply for a renewal permit at least 60 days prior to the expiration of this operation permit. The application shall include: the Short Form Application **[DEP Form No. 62-210.900(3)]**; the correct application processing fee; all required test reports; and a summary of any changes or substitutions to the original equipment, processes, fuels, controls, etc. When the renewal application is timely and sufficient, the existing permit shall remain in effect until final action is taken by the Health Department. **[Rules 62-4.090 and 62-210.900, F.A.C.]**
- 1.5 Applicable Regulations: This facility is subject to the following regulations: Chapters 62-4, 62-210, 62-212, 62-296, and 62-297, F.A.C. 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(2), F.A.C. and the SOA]**

2.0 EMISSION LIMITING AND PERFORMANCE STANDARDS

- 2.1 General VOC Standards: The owner or operator shall not store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOC) or organic solvents without applying known and existing vapor emission control devices or systems. This includes: **[Rule 62-296.320(1), F.A.C.]**
 - Regular inspection and maintenance of piping, valves, flanges, tanks, and containers used for storage and transfer of organic liquids in order to minimize fugitive VOC emissions.
 - When not in use, directing solvent-containing materials to containers that prevent evaporation.
- 2.2 Objectionable Odors: 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 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. [Rule 62-210.200, F.A.C.]
- 2.3 General Visible Emissions Standard: Unless otherwise specified by permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere any air pollutants from new, or existing emissions units, the opacity of which is equal to or greater than 20 percent. **[Rule 62-296.320(4)(b), F.A.C.]**
- 2.4 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. Reasonable precautions include the following: **[Rule 62-296.320(4)(c), F.A.C.]**
 - Paving and maintenance of roads, parking areas and yards.
 - Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
 - Application of asphalt, water, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
 - 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.
 - Landscaping or planting of vegetation.
 - Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
 - Confining abrasive blasting where possible.
 - Enclosure or covering of conveyor systems.

SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

Note: Facilities that cause frequent, valid complaints will be required by the Health Department to take these or other reasonable precautions. In determining what constitutes reasonable precautions for a particular facility, the Health Department shall consider the cost of the control technique or work practice, the environmental impacts of the technique or practice, and the degree of reduction of emissions expected from a particular technique or practice.

3.0 OPERATION AND MAINTENANCE REQUIREMENTS

- 3.1 **Changes/Modifications:** The owner or operator shall submit to the Health Department for review any changes in, or modifications to: the method of operation; process or pollution control equipment; increase in hours of operation; equipment capacities; or any change which would result in an increase in potential emissions. Depending on the size and scope of the modification, it may be necessary to submit an application for, and obtain, an air construction permit prior to making a desired change. *Routine maintenance of equipment would not constitute a modification of this permit.* [Rules 62-4.030, 62.4-070(3) and 62-210.300(1), F.A.C.]
- 3.1 **Plant Operations:** If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by hazard of fire, wind or by other cause, the owner or operator shall notify the Health Department as soon as possible, but at least within (1) working day, excluding weekends and holidays. The notification shall include: pertinent information, as to the cause of the problem; the steps being taken to correct the problem and prevent future recurrence; and where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release permittee from any liability for failure to comply with the conditions of this permit and the regulations. [Rule 62-4.130, F.A.C.]
- 3.3 **Circumvention:** The owner or operator shall not circumvent air pollution control equipment/methods or allow the emission of air pollutants without the equipment/methods operating properly. [Rule 62-210.650, F.A.C.]
- 3.4 **Excess Emissions Requirements** [Rule 62-210.700, F.A.C.]
- (a) Excess emissions resulting from start-up, shutdown or malfunction of these emissions units shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized, but in no case exceed two hours in any 24 hour period unless specifically authorized by the Health Department for longer duration. [Rule 62-210.700(1), F.A.C.]
 - (b) Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during start-up, shutdown, or malfunction are prohibited. [Rule 62-210.700(4), F.A.C.]
 - (c) In case of excess emissions resulting from malfunctions, the owner or operator shall notify the Air Pollution Control Section of the Palm Beach County Health Department within one working day of: the nature, extent, and duration of the excess emissions; the cause of the problem; and the corrective actions being taken to prevent recurrence. [Rule 62-210.700(6), F.A.C.]

4.0 COMPLIANCE MONITORING REQUIREMENTS

- 4.1 **Duration:** Unless otherwise specified, all records and reports required by this permit shall be kept for at least 3 years from the date the information was recorded to verify the facility's status as a synthetic minor source under the PSD and Title V Operating Permit Programs. [Rule 62-4.070(3), F.A.C.]
- 4.2 **Test Procedures** shall meet all applicable requirements of the Chapter 62-297, F.A.C. See **Appendix C** of this permit for a summary of these requirements. [Rule 62-297.100, F.A.C.]
- 4.3 **Operational Rate During Testing:** Unless otherwise stated in the applicable emission limiting standard for a rule, testing of emissions shall be conducted with the emissions unit operating at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. [Rule 62-297.310(2), F.A.C.]

SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

- 4.4 Stack Testing Facilities: The owner or operator shall maintain permanent stack testing facilities in accordance with **Rule 62-297.310(6), F.A.C.** These requirements are summarized in **Appendix C** of this permit.
- 4.5 Test Notification: The owner or operator shall notify the Health Department, in writing, at least **15 days prior** to the date on which each formal compliance test is to begin, of the test date, the expected test time, the location of the test, the facility contact person responsible for coordinating the test, and the person or company conducting test. The 15 day notification requirement may be waived at the discretion of the Health Department. Likewise, if circumstances prevent testing during the test window specified for the emissions unit, the owner or operator may request an alternate test date **before** the expiration of this window. **[Rule 62-297.310(7)(a)9., F.A.C.]**
- 4.6 Special Compliance Tests: When the Health Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a DEP rule or permit is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Health Department. **[Rule 62-297.310(7)(b), F.A.C.]**
- 4.7 Record Availability: The owner or operator shall keep all records and logs on site at the facility and available to the Health Department for inspection **[Construction Permit 099-0123-001-AC]**

5.0 REPORTS REQUIRED

- 5.1 Annual Operations Report: The annual operating report shall be submitted to the Florida Department of Health - Palm Beach County Health Department's Air and Waste Section by April 1st of each year. If the report is submitted using the Florida Department of Environmental Protection's electronic annual operating report software, there is no requirement to submit a copy to the Health Department. **[Rule 62-210.370(3)(c), F.A.C.]**
- 5.2 Excess Emissions Report: If excess emissions occur, the owner or operator shall notify the Air Compliance Section of the Health Department within one working day of: the nature, extent, and duration of the excess emissions; the cause of the excess emissions; and the actions taken to correct the problem. In addition, the Health Department may request a written summary report of the incident. **[Rules 62-4.130 and 62-210.700(6), F.A.C.]**
- 5.3 Emission Compliance Stack Test Reports: For each required emissions compliance test, a report indicating the results of the test shall be filed with the Health Department as soon as practical, **but no later than 45 days** after the last sampling run is completed. The report shall provide sufficient detail on the tested emissions unit and the procedures used to allow the Health Department to determine if the test was properly conducted and if the test results were properly computed. At a minimum, the test report shall provide the applicable information listed in **Rule 62-297.310(8)(c), F.A.C.** and summarized in **Appendix C** of this permit. Additional report information may be specified for a given group of emissions units in this permit. **[Rule 62-297.310(8), F.A.C.]**

6.0 WASTE REQUIREMENTS

- 6.1 Waste Disposal: The owner or operator shall treat, store, and dispose of all liquid, solid, and hazardous wastes in accordance with all applicable Federal, State, and Local regulations. This air pollution permit **does not** preclude the permittee from securing any other types of required permits, licenses, or certifications.

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

GROUP A: This portion of the permit addresses the following group of emissions units:

EMISSIONS UNIT NO.	EMISSIONS UNIT DESCRIPTION
001	Fossil fuel-fired steam generating unit (boiler) with a design heat input of 12.5 mmBTU/hour
002	Fossil fuel-fired steam generating unit (boiler) with a design heat input of 12.5 mmBTU/hour

{Permitting Note: These boilers provide steam to a heat exchanger which warms fuel oil prior to transfer via an underground pipeline to the Martin or Riviera Power Plants. A small boiler BACT determination was not made for these boilers since Construction Permit 0990123-001-AC established the maximum fuel oil sulfur content and an annual sulfur dioxide emissions limitation.}

OPERATING RESTRICTIONS

{Permitting note(s): The operating restrictions which are identified as “Not Federally Enforceable” have been placed in the permit to identify the capacity of the unit for purposes of confirming that emissions testing is conducted within 90 to 100 percent of the unit’s rated capacity, to establish emission limits, and to aid in determining future rule applicability.}

A.1 Permitted Capacity: The permittee shall not allow, cause, suffer, or permit the operation of the units in excess of the following capacities without prior authorization from the Permitting Authority: **[Rules 62-4.160(2), 62-210.200(231) and 62-210.300, F.A.C.]**

- (a) Heat Input: 12.5 mmBtu/hr (3-hour average). [Not Federally Enforceable]

{Permitting note(s): Prior authorization includes the issuance of construction, reconstruction, or modification permits or a determination by the Permitting Authority that the action is not subject to Rule 62-210.300(1), F.A.C.}

A.2 Methods of Operation: The permittee shall not allow, cause, suffer or permit any change in the method(s) of operation resulting in increased short-term or long-term emissions, without prior authorization from the Permitting Authority. The authorized methods of operation include the following: **[Rules 62-4.160(2), 62-210.200(231) and 62-210.300, F.A.C.]**

- (a) Steam Generator Operation: The permittee is authorized to operate the emissions units as fossil fuel fired steam generators. **[Permit 0990123-001-AC]**
- (b) Fuels: The permittee is authorized to fire No. 6 residual oil containing no more than 2.5% sulfur by weight; and on-specification mineral oils and No. 2 Fuel oil containing no more than 0.5% sulfur by weight and less than 50 ppm of polychlorinated biphenyls (PCBs). **Appendix D** of this permit specifies the contaminant and constituent limits for on-specification used oil fuels (mineral oil), as well as notification, sampling, analysis, and record keeping requirements for this fuel type.
- (c) Hours of Operation: The boilers are authorized to operate continuously 8760 hours per year. **[Permit 0990123-001-AC]**
- (d) Fuel Consumption Limits:
 - (I) If both boilers burn only No. 6 fuel oil with the maximum sulfur content of 2.5% sulfur by weight, then no more than 438,000 gallons shall be consumed during any consecutive (12) month period, rolling total.
 - (II) If both boilers burn only No. 2 fuel oil (or on-specification used mineral oil) with a maximum sulfur content of 0.5% sulfur by weight, then no more than 1,610,088 gallons shall be consumed during any consecutive (12) month period, rolling total.
 - (III) If the boilers burn a combination of fuels with varying sulfur contents, the operator shall use the Monthly Summary Log of potential SO₂ emissions to adjust the current fuel consumption rate and fuel type in order to meet the potential SO₂ emission limiting standard of this permit. **[Construction Permit 0990123-001-AC]**

EMISSION LIMITATIONS AND STANDARDS

A.3. Visible Emissions: The permittee shall not cause, suffer, allow, or permit visible emissions from each boiler exhaust stack that exceed 20% opacity based on a six-minute average except for one, two minute period per hour during which the opacity shall not exceed 40%. **[Permit 0990123-001-AC]**

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

- A.4. Sulfur Dioxide Emissions:** The combined potential sulfur dioxide emissions from the two boilers shall not exceed 90.00 tons in any consecutive (12) month period, rolling total. Compliance shall be determined by the recordkeeping requirements of this permit. **[Permit 099-0123-001-AC]**
- A.5. Excess Emissions:** Excess visible emissions from the boilers are allowed in accordance with **Condition II.A.3** of this permit and for existing fossil fuel steam generators, excess emissions resulting from boiler cleaning (soot blowing) and load change are permitted provided the duration of such excess emissions shall not exceed 3 hours in any 24-hour period and visible emissions shall not exceed (60) percent opacity, and provided best operational practices to minimize emissions are adhered to; and the duration of excess emissions shall be minimized. **[Rule 62-210.700(3), F.A.C.]**
{Permitting Note: A load change occurs when the operational capacity of a unit is in the 10 percent to 100 percent capacity range, other than startup or shutdown, which exceeds 10 percent of the unit's rated capacity and which occurs at a rate of 0.5 percent per minute or more.}
- A.6. Fuel Oil Sulfur Content:** The permittee shall not allow the firing of on-spec. used mineral oil or fuel oil with a sulfur content greater than 0.5 percent by weight. **[Permit 0990123-001-AC]**

TEST METHODS AND PROCEDURES

- A.7. Visible Emissions:** All visible emissions tests performed pursuant to the requirements of this permit shall comply with the following provisions:
- (a) Test Method:** The test method for visible emissions shall be EPA Reference Method 9, Rule 62-297.401(9), F.A.C., and the required minimum period of observation for a compliance test shall be sixty (60) minutes. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. **[Permit 099-0123-001-AC and Rule 62-297.310(4)(a)2., F.A.C.]**
 - (b) Test Procedures:** Each test shall be conducted while burning No. 6 fuel oil, unless No. 6 fuel oil was burned for less than 400 hours during the previous (12) months. Test procedures shall meet all applicable requirements of Chapter 62-297, F.A.C. **[Permit 099-0123-001-AC and Rule 62-297.410(4), F.A.C.]**
- A.8. Fuel Oil Sulfur Content:** All fuel oil sulfur content tests performed pursuant to the requirements of this permit shall be determined using **ASTM D129-91, ASTM D2662-94, ASTM D4294-90 or D5453-09**, Rule 62-297.440(1)(h), (1)(i), or (1)(j), F.A.C. Copies of the documents are available from ASTM. **[Rule 62-297.401, F.A.C. and Permit 0990123-001-AC]**
- A.9. Waiver of Compliance Test Requirements:** For fuel oil sulfur content, the Permitting Authority may waive the compliance test requirement of **Condition III.A.10(b)**, unless a Special Compliance test is required under Rule 62-297.310(7)(b), F.A.C., provided the permittee complies with **condition III.B.3.** of this permit and maintains copies of the fuel purchase records for review by the Permitting Authority: **[Permit No. 099-0123-001-AC and Rule 62-297.310(7)(c), F.A.C.]**

COMPLIANCE DEMONSTRATIONS AND PERIODIC MONITORING

- A.10. Compliance Demonstrations:** The permittee shall have a formal compliance test conducted for the emissions unit annually during each federal fiscal year (October 1 – September 30), unless otherwise specified by rule, order, or permit, for the following pollutants: **[Rule 62-297.310(7), F.A.C.]**
- (a)** Visible Emissions; and
 - (b)** Fuel Oil Sulfur Content.
- A.11. Fuel Flow Monitoring:** In accordance with the manufacturer's recommendations, the permittee shall install, calibrate, maintain, and operate a fuel flow meter with a totalizer for each boiler to continuously record the gallons of fuel consumed. The monitoring equipment shall be on line and functioning properly during boiler operation. **[Permit 0990123-001-AC]**
- A.12. Boiler Fuel Consumption Log:** For each boiler fuel flow meter, the operator shall maintain a written log including the following information: **[Permit 0990123-001-AC]**
- (a)** At the beginning of each month, record: the date, the time fuel was first burned, the initial allowable fuel type, the fuel sulfur content, and the initial totalizer reading on fuel flow meter.
 - (b)** Prior to switching allowable fuels or altering the sulfur content of the current fuel, record: the date, the time, the new fuel type, the new sulfur content, and the totalizer reading on the flow meter.

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

- (c) At the end of each month, record: the date, the time, and final totalizer reading on fuel flow meter.
- (d) For any calibrations, adjustments, repairs, and maintenance performed on the fuel flow meters, record the date and a brief summary.

A.13. Monthly SO₂ Emissions Log: By the tenth day of each month, the permittee shall calculate and record the following information regarding the previous month of operation in a written log:

- (a) Total fuel consumption of both boilers for each combination of allowable fuel type and sulfur content.
- (b) Calculated combined potential emissions of sulfur dioxide from both boilers in tons per month, to the nearest hundredth of a ton.
- (c) Calculated combined potential emissions of sulfur dioxide from both boilers in tons per consecutive (12) months, rolling total, to the nearest hundredth of a ton.

{Permitting Note: Potential emissions of sulfur dioxide shall be based on: the sulfur content of the fuel from the corresponding fuel analysis; the maximum density of the fuel given below; the consumption of each fuel type with a given sulfur content based on data from the fuel flow meters; and the conservative assumption that (2.0) pounds of sulfur dioxide are generated per pound of sulfur in the fuel. For calculation purposes, the maximum density for an allowable fuel type defined as follows:

- 8.21 pounds per gallon for No. 6 fuel oil.
- 7.21 pounds per gallon for No. 2 fuel oil and on-specification used mineral oil.}

[Permit 099-0123-001-AC]

A.14. Visible Emissions Test Reports: Test reports for each boiler shall include the following items:

[Permit 0990123-001-AC]

- (a) *Visible Emissions Observation Form; Observer Certification;* Fuel analysis indicating type and sulfur content of fuel burned during test; Quantity (gallons) of fuel burned during test; Calculated heat input rate boiler during test in MMBtu/hour; Highest and second highest (6) minute average opacity; and Highest (2) minute average opacity.

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

GROUP B: This portion of the permit addresses the following group of emissions units:

EMISSIONS UNIT NO.	EMISSIONS UNIT DESCRIPTION
005	<p>Volatile Organic Liquid Storage Tanks including the following:</p> <ul style="list-style-type: none"> -500,000 BBL (21 million gallons) fuel oil storage tank; #6 Fuel Oil, #2 Fuel Oil, Bio-diesel and blended Bio-diesel; -500,000 BBL (21 million gallons) fuel oil storage tank; #6 Fuel Oil, #2 Fuel Oil, Bio-diesel and blended Bio-diesel; -5000 BBL (210,000 gallons) fuel oil storage tank; on-specification, used mineral oil; and 478 gallon fuel oil storage tank; distillate oil.

{Permitting Note: The conditions contained in this permit provide a practical restriction on the method of operation and are considered federally enforceable (Construction Permit 0990123-001-AC).}

OPERATING RESTRICTIONS

{Permitting note(s): The operating restrictions which are identified as “Not Federally Enforceable” have been placed in the permit to identify the capacity of the unit for purposes of confirming that emissions testing is conducted within 90 to 100 percent of the unit’s rated capacity, to establish emission limits, and to aid in determining future rule applicability.}

B.1. Hours of Operation: The storage tanks are authorized to operate continuously (8760 hours per year).
[Permit 0990123-001-AC]

B.2. Allowable Fuels for Storage

- B20/B30 Bio-diesel, B100 Bio-diesel or any B% Bio-diesel.
- No. 2 Fuel Oil
- No. 6 Fuel Oil
- On-specification, used mineral oil

TEST METHODS AND PROCEDURES

B.3. Fuel Sampling: To provide reasonable assurance of the sulfur contents for fuels which may be burned in the boilers, the owner or operator shall perform the following sampling and analysis: **[Permit No. 0990123-001-AC]**

- (a) **For Each Delivery:** After each delivery the owner or operator shall determine the final sulfur content of the stored fuel by taking a representative sample and having it analyzed.
- (b) For the 5000 BBL and the 478 gallon fuel oil tanks, the above requirement (a) to sample and analyze after each delivery is not necessary, provided:
 - (i) Only fuels containing no more than 0.5% sulfur by weight are stored and added. The results of sampling and analysis, as delivered, are maintained on site in the Storage Tank Fuel Log.
 - (ii) Fuel from these tanks burned in the boilers is assumed to contain the maximum of 0.5% sulfur by weight, OR
 - (iii) The new sulfur content of the stored fuel is calculated from: the quantity and sulfur content of the fuel oil stored in the tank before delivery and the quantity and sulfur content of the fuel oil delivered to the tank.

B.3. Fuel Oil Sulfur Content: All fuel oil sulfur content tests performed pursuant to the requirements of this permit shall be determined using **ASTM D129-91, ASTM D2662-94, ASTM D4294-90, D5453-12 and D6751-12**, Rule 62-297.440(1)(h), (1)(i), or (1)(j), F.A.C. Copies of the documents are available from ASTM. **[Rule 62-297.401, F.A.C. and Permit 0990123-001-AC]**

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

B.4 On-Specification Used Mineral Oil Fuel: On-specification used mineral oil which meets the requirements defined in *Appendix D* of this permit shall be stored in the 5000 BBL fuel tank prior to burning in the boilers. [Permit No. 0990123-001-AC]

RECORDKEEPING

B.5. Storage Tank Fuel Log: The permittee shall record and keep the following information in a written log on site at the facility and shall be made available to the Health Department during inspection:
[Construction Permit No. 0990123-001-AC]

(a) For Each Delivery:

- (I) If the sulfur content is to be determined by on-site sampling and analysis, the log shall also include the actual fuel analysis report, indicating the sulfur content in percent by weight, to the nearest tenth of a percent.
 - Date.
 - Type and quantity of fuel delivered to each tank.
 - Party taking the sample and performing the analysis.
 - Method of analysis.
 - Results of analysis.
 - (II) If the sulfur content of the stored fuel is assumed to be the maximum of 0.5% sulfur by weight for fuels stored in the 5000 BBL or 478 gallon fuel tanks, the log shall also include the fuel analysis report, as delivered, indicating the sulfur content in percent by weight, to the nearest hundredth of a percent.
 - (III) If the sulfur content of the stored fuel is to be determined by calculation for fuels stored in the 5000 BBL or 478 gallon fuel tanks, the following information shall also be included:
 - Current information on stored fuel, prior to new delivery, including the sulfur content in percent by weight (to the nearest hundredth of a percent) and the current quantity (gallons) of fuel stored in tank.
 - The fuel analysis report for the new fuel, as delivered, including the sulfur content in percent by weight (to the nearest hundredth of a percent) and the quantity of fuel (gallons) delivered to tank.
 - Calculations for the resulting mixed fuel, after delivery, indicating the final sulfur content in percent by weight (to the nearest hundredth of a percent) and the new quantity (gallons) of fuel stored in tank.
- (b)** For on-specification used mineral oil, the results of all analyses or the basis for determining that the used mineral oil meets the requirements for "on-specification" used oil. (*Appendix D* defines the requirements for used oil fuels.)

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

GROUP C. This portion of the permit addresses the following group of emissions units:

EU	EMISSIONS UNIT DESCRIPTION		
006	Miscellaneous operations and activities , exempt from permitting by rule. [EXEMPT UNIT]		
	<i>Fuel Storage Tanks</i>	<i>Emergency Generators</i>	<i>Others</i>
	One 110, 000 barrel Aboveground Storage Tank (AST)-Purge Tank; #2 Fuel Oil, Bio-diesel and Blended Bio-diesel with #2 Fuel Oil. Two Fuel Dispensing Pumps (Gasoline & Diesel); One 4,669 Gallon Dual Compartment Horizontal Aboveground Storage Tank (AST) - 1569 Gasoline and 3100 Diesel; One 6,000 gallon (AST)-Diesel Tank; Two 1,000 gallon (AST)-Diesel Tank; Two 500 gallon (AST)-Diesel Tank; One 350 gallon (AST)-Diesel Tank; One 300 gallon (AST)-Diesel Tank; One 250 gallon (AST)-Diesel Tank; One 100 gallon (AST)-Diesel Tank; Two 500 gallon (AST)-Propane Tank; One 120 gallon (AST)-Propane Tank	One 1,250 kW Diesel Generator; One 400 kW Diesel Generator; One 400 kW Diesel Generator - <i>(Notification of new generator on 9/1/2011, 40 CFR 60 Subpart IIII)</i> One 150 kW Bio-Diesel Generator – (Notification of new generator on 08/27/2014, 40 CFR 60 Subpart IIII) Two 200 kW Diesel Generators; One 175 kW Diesel Generator; One 150 kW Diesel Generator; One 125 kW Diesel Generator; One 105 kW Diesel Generator; One 100 kW Diesel Generator; One 100 kW Propane Generator; One 65 kW Propane Generator; Two 19 kW Propane Generators; One 190 HP Diesel Fire Pump;	- Laboratory Activities associated with Physical and Chemical Analyses [CSE bldg.] -Four Enclosed Glass Bead Blast Machines ; -Non-RACT Surface Coating Operations (less than 6 gallons per day); -Non-RACT/Non-Halogenated Solvent Cleaning (Parts Washers); -Wood Grinding Operations

*{Permitting Note: This equipment has been identified as either an activity exempt by rule from the requirement to obtain an air pollution permit or has been determined to emit negligible amounts of air pollutants. **All generators and fire pump engines, except the 400KW generator for the Storm Command Center and 150 KW Caterpillar Emergency Bio-diesel generator for the Martin Terminal Fueling Area, were designated as existing engines under 40 CFR Part 63 Subpart ZZZZ.***

RULE APPLICABILITY

C.1. NESHAP Subpart ZZZZ: The generators and the fire pumps at the facility are subject to the applicable Requirements of 40 CFR Part 63 Subpart ZZZZ ‘National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE)’ Regulations. The facility shall comply with Subpart ZZZZ by no later than May 3, 2013. [40 CFR 63 Subpart ZZZZ]

C.2. NSPS Subpart IIII: New generators and the fire pumps with displacement of less than 30 liters per cylinder that were manufactured in 2007 or later are subject to 40 CFR Part 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. **The 400 KW generator for the Storm Command Center and 150 KW Caterpillar Bio-diesel emergency generator for the Martin Terminal Fueling Area are subject to this Subpart. [40 CFR Part 60 Subpart IIII]**

OPERATING RESTRICTIONS

C.3. Hours of Operation: Each fire pump engine or generator may operate up to 100 hours per year for maintenance checks and readiness testing purposes. There are no operating limitations on generators or fire pump engines during emergency usage. **[Rule 40 CFR 63.6640(f) and Rule 40 CFR 60.4211(e)]**

EMISSION LIMITING AND PERFORMANCE STANDARDS

C.4. Fuel Usage: The facility shall comply with the following usage limits in order to maintain the permit exemption status for the emission sources. **[Rules 62-4.070(3), and 62-210.300, F.A.C.]**

(a) **Surface Coating Operations:** For all coatings and thinners containing greater than 5.0 percent volatile organic compounds associated with the surface coating activities, the total quantity shall not exceed 6 gallons per day averaged monthly. **[Rule 62-210.300(3)(a)27., F.A.C.]**

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

- (b) Emergency Generators and Diesel Fire Pumps: Total fuel by all generators shall not exceed 5,400 gallons of gasoline, 64,000 gallons of diesel fuel, 288,000 gallons of propane, or 8.8 million standard cubic feet of natural gas. [Rule 62-210.300(3)(a)35 & 36 F.A.C.]
- (c) Emergency Generators and Diesel Fire Pumps: Beginning October 1, 2010, owners and operators of stationary CI ICE subject to 40 CFR Part 63 Subpart ZZZZ with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b), nonroad ultra-low sulfur diesel fuel. **[Rule 40 CFR 60.4207(b)]**
- (d) The permittee is authorized to use only diesel fuel that meets the following requirements of 40 CFR 80.510(b). **[40 CFR 63.6604]**
 - (1) *Maximum Sulfur content of 15 ppm.*
 - (2) *Cetane index or aromatic content, as follows:*
 - (i) *A minimum cetane index of 40; or*
 - (ii) *A maximum aromatic content of 35 volume percent.*

C.5. Operating Requirements for the Generators and the Fire pumps: The generators and the fire pumps must meet the following requirements, except during periods of startup. **[40 CFR 63.6603(a) and Table 2d of Subpart ZZZZ]**

- (a) Change oil and filter every 500 hours of operation or annually, whichever comes first¹;
- (b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and
- (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
 - a. *{¹ Sources have the option to utilize an oil analysis program as described in 40 CFR 63.6625(i) in order to extend the specified oil change requirement.*
- (d) During periods of startup the facility must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. **[40 CFR 63.6625(h)]**

{Note: If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements in Section III, C.5. of this permit, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The best management practices should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.}

C.6. Monitoring Requirements for emergency generators and firepumps: The owner or operator shall develop the operating and maintenance logs and records and shall comply with the requirements as prescribed below.

- (a) The facility must comply with emission limitations and operating limitations, and must operate and maintain the emergency generators and fire pump engines, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at all times, including during startup, shutdown, and malfunction. **[40 CFR 63.6605(b)]**
- (b) The facility must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. **[40 CFR 63.6625(e) and Rule 40 CFR 60.4211(a)]**
- (c) The emergency stationary RICE with a site rating [maximum manufacturer's design capacity at engine site conditions] of less than or equal to 500 brake HP **shall be installed with a non-resettable hour meter if one is not already installed.** **[Rule 40 CFR 63.6625(f) and Rule 40 CFR 60.4209(a)]**

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

RECORD KEEPING REQUIREMENTS

C.7. Records: The permittee shall maintain records of the following:

- (a) **Surface Coating Operations:** The permittee shall maintain sufficient documentation to demonstrate compliance with the coating and solvent usage restriction of **condition III.C.3.(a)** of this permit.
- (b) **Emergency Generators and Diesel Fire Pump:** The permittee shall maintain sufficient documentation to demonstrate compliance with the fuel usage limit according to specific **conditions III.C.4.(b) & (c)** of this permit.
- (c) Records of the occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the air pollution control and monitoring equipment. **[40 CFR 63.6655(a)(2)]**
- (d) Records of all required maintenance performed on the air pollution control and monitoring equipment. **[40 CFR 63.6655(a)(4)]**
- (e) The permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the permittee operated and maintained the stationary RICE and after-treatment control device (if any) according to facility's maintenance plan. **[40 CFR 63.6655(e)]**

**TECHNICAL EVALUATION
AND
PRELIMINARY DETERMINATION**

Air Operation Permit Revision No: 0990123-014-AO

Florida Power & Light Company
Martin Oil Storage Facility and Physical Distribution Center
Southwest Corner of I-95 and SR-710
Riviera Beach, FL 33407

Palm Beach County, Florida

Permitting & Compliance Authority:

Florida Department of Health – Palm Beach County
Division of Environmental Public Health
Air & Waste Section
P.O. Box 29 (800 Clematis Street)
West Palm Beach, FL 33402-0029

Revised Technical Evaluation
Prepared by Paul T. Kalamaras
Engineering Specialist III

September 23, 2014

1.0 APPLICATION INFORMATION

1.1 Applicant Name and Address

Richard A. Lee
 Director, Materials Management

1.2 Application Review

08-27-2014: Health Department received air permit revision application information.

2.0 FACILITY INFORMATION

2.1 Facility Location

Martin Oil Storage Facility and Physical Distribution Center
 Southwest Corner of I-95 and SR-710
 Riviera Beach, FL 33407

UTM: Zone 17; 589.7 km E / 2961.2 km N
 Lat/Long: 26° 46' 15" N / 80° 05' 52" W

2.2 Standard Industrial Classification Code (SIC # 4911)

Major Group Number	49	<i>Electric, Gas and Sanitation Services</i>
Group Number	494	<i>Electric Services</i>
Industry Number	4911	<i>Electric Services</i>

2.3 Facility Category

Based on the specific conditions in the permit and the physical restrictions of the equipment, this facility is classified as a synthetic non-Title V source of air pollution.

3.0 PROJECT DESCRIPTION

This facility consists of the following emissions units:

EMISSIONS UNIT No.	STATUS	EMISSIONS UNIT DESCRIPTION
001	Active	12.5 MMBtu/hr boiler #1 (Unit A – West) burning No.6 fuel oil
002	Active	12.5 MMBtu/hr boiler #2 (Unit B - East) burning No.6 fuel oil
003	Inactive	Wire reclamation incinerator w/afterburner
004	Inactive	Aluminum sweat furnace w/afterburner (4500 lb/8-hr shift)
005	Active	Boiler fuel storage and fuel transfer storage
006	Active	Miscellaneous support equipment including the 150kw Caterpillar Bio-Diesel Generator
007	Inactive	Wire Reclaim Furnace

On August 27, 2014, Florida Power and Light Company applied to the Florida Department of Health Palm Beach County (Health Department) for an Air Permit Operation Permit revision to change the manufacturer of the 130 KW bio-diesel emergency generator to the Caterpillar 150 KW bio-diesel generator (grouped in EU006 -- EXEMPT UNIT).

The existing facility is a synthetic non-Title V source and is currently operating under Permit No. 0990123-013-AO. The existing facility contains two (12.5 mmbtu/hr) boilers, fuel storage tanks and other miscellaneous

support equipment. These emission units are associated with oil transfer and storage of No. 6 residual oil through a pipeline connected to the Riviera and Martin plants, and FPL's electric transmission and distribution system.

This permit revision is to change the manufacturer of the 130 KW bio-diesel emergency generator to the 150 KW Caterpillar bio-diesel generator (grouped in EU006 -- EXEMPT UNIT) which will run as an emergency power backup for the Martin Terminal Fueling Area. The design rating of the generator is 201 horsepower (HP) or 150 KW (Kilowatts) with a heat input rate of 1.39 mmbtu/hour and a fuel rate of 11.3 gallons per hour. This generator will be grouped under Emission 006 as exempt. The generator is certified as a TIER III emergency engine and must comply with 40 CFR 60 Subpart IIII.

4.0 RULE APPLICABILITY

The proposed project is subject to preconstruction review under the applicable provisions of Chapter 403, Florida Statutes, and Chapters 62-209 through 62-297 of the Florida Administrative Code (F.A.C.). This facility is located in Palm Beach County; an area designated as "maintenance" for the pollutant ozone and attainment for all other criteria pollutants in accordance with the chapter 62-204 F.A.C.

The FPL Martin OSF/PDC facility is one of the 28 listed sources under the definition of a "major stationary source" in Rule 62-210.200, F.A.C. [petroleum storage and transfer units with a total storage capacity of 300,000 barrels]. If a facility is one of the 28 listed sources, annual emissions of 100 TPY or more of any Prevention of Significant Deterioration (PSD) pollutant would classify a facility as a major stationary source potentially subject to PSD review. The existing facility is not subject PSD source since the potential emissions were below PSD thresholds. After the installation of the proposed compressor station, the potential emissions of PSD pollutant will remain below the PSD thresholds. Therefore, the facility is not subject to PSD review.

The potential emissions from the facility (including the revised proposed project) do not exceed major source threshold for any regulated pollutant, i.e. 100 tons per year (TPY) of criteria pollutant; and 10 or 25 tons per year of a Hazardous Air Pollutant (HAP) or total HAPs respectively.

The proposed revision project is exempt from review under Rule 62-212.400 F.A.C., Prevention of Significant Deterioration (PSD), because this source is considered a minor facility for the purpose of PSD regulations (potential to emit less than 100 tons per year of PSD pollutant).

Based on the potential emissions of individual HAP and total HAPs, this facility is categorized as an area source. On January 18, 2008, the EPA promulgated "National Emission Standards for Hazardous Air Pollutants (NESHAP) for reciprocating internal combustion engines (RICE)" for new and reconstructed engines at area sources (40 CFR 63 Subpart ZZZZ). The existing emergency generators at the facility are subject to the Subpart ZZZZ.

The proposed facility shall comply with all applicable provisions of the Florida Administrative Code and, specifically, the following chapters and rules:

Chapter 62-4, F.A.C.	-	Permits.
Rule 62-4.160, F.A.C.	-	General Permit Conditions
Chapter 62-204, F.A.C.	-	Air Pollution Control - General Provisions
Rule 62-204.800 F.A.C.	-	40 CFR Part 63 Subpart ZZZZ
Chapter 62-210, F.A.C.	-	Stationary Sources – General Requirements
Rule 62-210.300, F.A.C.	-	Permits Required.
Rule 62-210.350, F.A.C.	-	Public Notice and Comment.
Rule 62-210.370, F.A.C.	-	Reports.
Rule 62-210.650, F.A.C.	-	Circumvention.
Rule 62-210.700, F.A.C.	-	Excess Emissions.
Rule 62-210.900, F.A.C.	-	Forms and Instructions.
Chapter 62-212, F.A.C.	-	Stationary Sources – Preconstruction Review
Rule 62-212.300, F.A.C.	-	General Preconstruction
Chapter 62-296, F.A.C.	-	Stationary Sources – Emission Standards

- Rule 62-296.310, F.A.C. - General Particulate Emission Limiting Standards.
- Rule 62-296.320, F.A.C. - General Pollutant Emission Limiting Standards.
- Chapter 62-297, F.A.C.** - **Stationary Sources - Emissions Monitoring**
- Rule 62-297.310, F.A.C. - General Test Requirements.
- Rule 62.297-400, F.A.C. - EPA Test Methods Adopted by Reference

5.0 SOURCE IMPACT ANALYSIS

5.1 Facility-wide Potential Emissions: Potential emissions from the existing facility and the proposed compressor station are presented below.

Table 1. Potential Emission Summary

Pollutant	EXISTING FACILITY (TPY)				Facility TOTAL (TPY)
	Boilers (EU 001 & 002)	All Emergency Generators (EU 006)	Storage Tanks (EU 005)	Surface Coatings (EU 006)	
SO2	90	0.006	--	--	90.01
PM	2.19	0.279	--	--	2.47
PM10	2.19	0.279	--	--	2.47
NO _x	16.10	10.790	--	--	26.89
CO	4.03	4.636	--	--	8.67
VOC	0.16	2.909	3.64	3.29	10.00
Total HAPS	0.0072	0.017	--	--	0.024

Notes: Potential emissions of SO2 emissions from Boilers (EU 001 & 002) were taken from the current permit (0990123-008-AO) using Fuel Oil No. 6. The potential emissions for EU006 assumes 64,000 gallons of fuel oil collectively per year which would be exempt under Rule 62-210.300(3)(a)35.d.

5.3 Title V Applicability Determination

The existing facility is a synthetic minor source of air pollution. The current air permit No. 0990123-013-AO contains the restriction on the amount of fuel burned based on the sulfur content of the fuel. Amount of residual fuel, with maximum sulfur content of 2.5% by weight, is limited to 438,000 gallons per year. Amount of distillate fuel oil, with maximum sulfur content of 0.5%, is limited to 1,610,088 gallons per year. The permit also limits the emissions of sulfur dioxide from boilers to 90 tons per year, and the permittee is required to maintain the fuel consumption records to demonstrate compliance with this limit.

The results of this calculated facility wide potential emissions are shown with the revised permit in Table 1. There will be no changes in the facility-wide emissions. Based on the facility-wide potential emissions in Table 1, the facility will not be a major source for criteria pollutants and HAPS.

6.0 CONCLUSION

Based on the information provided by the applicant, the PBCHD has a reasonable assurance that the proposed project, as described in this evaluation, and subject to the conditions in the proposed draft permit, will not cause or contribute to a violation of any air quality standard or any other technical provision of Chapter 62-4 through 62-297 of the Florida Administrative Code.