Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

DRAFT PERMIT

PERMITTEE

Florida Power & Light Company
19050 State Road 62
Parrish, FL 34219

Authorized Representative:
Mr. Paul Plotkin, Plant General Manager

Air Permit No. 0810024-011-AC
Permit Expires: 08/01/2012
Site Name : Port Manatee Oil Storage Facility
Minor Air Construction Permit
Project Name: Replacement Heater

This is the final air construction permit, which authorizes the construction of a replacement hot oil heater at an oil storage facility. The proposed work will be conducted at the Port Manatee Oil Storage Facility (Standard Industrial Classification No. 4613). The facility is located in Manatee County at Port Manatee in Palmetto, Florida. The UTM coordinates are Zone 17, 349.06 km East, and 3056.51 km North. As noted in the Final Determination provided with this final permit, no changes or only minor changes and clarifications were made to the draft permit.

This final permit is organized by the following sections:

Section 1. General Information

Section 2. Administrative Requirements and Facility-wide Specific Conditions

Section 3. Emissions Unit Specific Conditions

Section 4. Appendices

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

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

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

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

Executed in Hillsborough County, Florida

DRAFT

_____ _____

Cindy Zhang-Torres, P.E. Effective Date
Air Permitting Manager
Southwest District

CERTIFICATE OF SERVICE

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

Paul Plotkin, Plant General Manager
pplotkin@fpl.com

Mary Archer, Project Manager
mary.archer@fpl.com

Mary Maxwell, Plant Leader
mary.maxwell@fpl.com

Edward Preast, P.E.
ed.preast@fpl.com

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.

_____ _____

(Clerk) (Date)

FACILITY AND PROJECT DESCRIPTION

Existing Facility

The facility receives fuel oil by marine vessels and tanker trucks, stores the fuel oil in storage tanks, and transfers fuel oil via pipeline to Florida Power & Light Company's Manatee Power Plant located east of Parrish. The heaters use an intermediate heat transfer fluid, Therminol 55, to heat the residual fuel oil prior to its being pumped through the pipeline.

The existing facility consists of the following emissions units.

Facility ID No. 0810024	
ID Nos.	Emission Unit Description
001	Volcanic Fuel Oil Heater
003	GTS Energy Fuel Oil Heater

Project Description and Affected Emission Units

This project replaces the existing Volcanic fuel oil heater (EU 001) with a Volcanic 1002S thermal liquid heater (EU 004). The new heater has the same manufacturer and model number as the one it is replacing. It also makes some minor changes to the applicability table for 40 CFR 60, Subpart Dc. This project affects the following emissions units.

Facility ID No. 0810024	
ID Nos.	Emission Unit Description
003	GTS Energy Fuel Oil Heater
004 (new)	Volcanic 1002S Thermal Liquid Heater

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

Exempt Emission Units/Activities

One emergency diesel generator constructed or reconstructed before June 12, 2006. It is rated at 75 kW. It is fired with No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight at a maximum heat input rate of 1.05 MMBtu/hour. It uses fuel stored in a 75-gallon day tank which is filled by tanker truck. The SO_2 emissions from this generator, when added to the SO_2 emissions of the other sources at this facility, will not cause the total SO_2 emissions to equal or exceed 100 TPY. The generator is subject to 40 CFR 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. As of the effective date of this permit the Federal rule pertaining to existing engines has not been adopted by the State of Florida. If this generator is modified or reconstructed it will no longer be considered an existing engine and it will become subject to 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and the owner or operator shall comply will all limitations and requirements of this subpart that apply to this generator.
[Rule 62-210.300(3)(a)35., F.A.C.]

Two (2) fixed-roof storage tanks each with a capacity of 500,000 barrels that receive No. 6 fuel oil by marine vessels; One (1) fixed-roof storage tank with a capacity of 37,000 barrels that receives No. 6 fuel oil by marine vessels; One (1) fixed-roof storage tank with a capacity of 5,000 barrels that receives No. 2 fuel oil by tanker truck. Volatile organic compound (VOC) emissions from these storage tanks have been determined to be less than 1 ton/year based on throughput.
[Rule 62-210.300(3)(b)1., F.A.C.]

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility has no units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is not a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400 (PSD), F.A.C.
- This facility is a synthetic non-Title V source for the pollutant sulfur dioxide (SO_2).
- The GTS Energy fuel oil heater (EU 003) and Volcanic 1002S Volcanic thermal liquid heater (EU 004) are regulated under New Source Performance Standard (NSPS) 40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units and the general provisions of 40 CFR 60, Subpart A, General Standards, where applicable, which have been adopted by reference in Rule 62.204-800(8), F.A.C.

PERMIT HISTORY/AFFECTED PERMITS

This permit modifies and replaces Construction Permit No. 0810024-008-AC.

ADMINISTRATIVE REQUIREMENTS

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

Florida Department of Environmental Protection
Southwest District Office
Air Resource Management Section
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-632-7600

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

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

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

a. Appendix A. Citation Formats and Glossary of Common Terms;

b. Appendix B. General Conditions;

c. Appendix C. Common Conditions;

d. Appendix D. Common Testing Requirements; and

e. Appendix E. 40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.

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

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

6. Modifications - Unless otherwise exempt by rule, the permittee shall not initiate any construction, reconstruction, or modification at the facility and shall not install/modify any pollution control device at the facility without obtaining prior authorization from the Department. Modification is defined as: Any physical change or changes in the method of operations or addition to a facility that

would result in an increase in the actual emissions of any air pollutant subject to air regulations, including any not previously emitted, from any emission unit or facility.
[Rules 62-210.200 ("Modification") and 62-210.300(1)(a), F.A.C.]

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

8. Application for a Non-Title V Air Operation Permit - This permit authorizes the construction of EU 004, Volcanic 1002S thermal liquid heater, and its initial operation to determine compliance with Department rules. A non-Title V air operation permit is required for continued operation of the permitted emissions unit. The permittee shall apply for a non-Title V air operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation or commencing operation as modified. Commencing operation means setting into operation of any emissions unit for any purpose. To apply for a Non-Title V air operation permit, the applicant shall submit the following:

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

b. the appropriate operation permit application fee from Rule 62-4.050(4)(a), F.A.C.; and

c. copies of the most recent two months of records/logs specified in Specific Condition No. A.7.

The application shall be submitted to the Permitting Authority.

[Rules 62-4.030, 62-4.050, and 62-4.220, F.A.C.]

FACILITY-WIDE SPECIFIC CONDITIONS

9. Precautions for Unconfined Particulate Matter -All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter. In addition to precautions listed in Appendix C., paragraph 9, reasonable precautions shall include the following:

a. use of temporary enclosures when necessary in order to contain abrasive blasting material from maintenance activities;

b. maintenance of paved areas as needed; and

c. limiting vehicle speed on unpaved roads.

[Rule 62-296.320(4)(c), F.A.C.]

10. Fugitive Emissions Opacity Standard - As an indicator that the precautions to control unconfined particulate matter emissions as required by Specific Condition No. 9 are adequate, emissions of unconfined particulate matter from the facility should not exceed five (5%) percent opacity. If this value is exceeded, it shall not be a violation in and of itself, but an indication that additional control precautions and/or work practices beyond those of Specific Condition No. 9. may be necessary. [Rule 62-4.070(3), F.A.C.]

A. EU 003 – GTS Energy Fuel Oil Heater and EU 004 – Volcanic 1002S Thermal Liquid Heater

This section of the permit addresses the following emissions unit.

ID No.	Emission Unit Description
003	The GTS Energy Model DEG145 fuel oil heater is designated as Heater H-1243-B. It is fired at a maximum heat input rate of 12.5 MMBtu/hour with natural gas or No. 2 fuel oil with a maximum sulfur content of 0.5%.
004	The Volcanic 1002S thermal liquid heater is fired at a maximum heat input rate of 15 MMBtu/hour with natural gas or No. 2 fuel oil with a maximum sulfur content of 0.5%.

PERFORMANCE RESTRICTIONS

A.1. Federal Regulatory Requirements - These emission units are subject to 40 CFR 60, Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (see Appendix E) and Subpart A - General Provisions, which are adopted by reference in Rule 62-204.800, F.A.C. The applicable provisions of Subpart Dc are listed below:

(*Note: Entire section applies unless otherwise noted with specific applicable subsection references)*

§ 60.40c Applicability.

§ 60.41c Definitions.

§ 60.42c Standard for sulfur dioxide (SO_2).

§ 60.42c(d), (h) and (i)

§ 60.44c Compliance and performance test methods and procedures for sulfur dioxide.

§ 60.44c(g) and (h)

§ 60.46c Emission monitoring for sulfur dioxide.

§ 60.46c(d)(2) and (e)

§ 60.48c Reporting and recordkeeping requirements.

§ 60.48c(a),(d), (e)(1) and (11), (f)(1), (g)(1), (i), and (j)

[Rule 62-204.800(8), F.A.C.; 40 CFR 60, Subpart Dc]

A.2. Authorized Fuels - The following fuels are allowed:

a. Natural gas; and

b. No. 2 fuel oil with a maximum sulfur content of 0.5% sulfur, by weight.

[Rule 62-210.200 ("Potential to Emit"), F.A.C.; 40 CFR 60.42c(d)]

A.3. Fuel Usage Limitations – No. 2 fuel oil usage shall be limited to a maximum of:

a. EU 003 - 805,100 gallons/any consecutive 12 month period; and

b. EU 004 - 966,200 gallons/any consecutive 12 month period.

[Rule 62-210.200 ("Potential to Emit"), F.A.C.]

A.4. Hours of Operation - The hours of operation of each heater are not restricted (i.e. 8,760 hours/year).
[Rule 62-210.200 ("Potential to Emit"), F.A.C.]

MONITORING REQUIREMENTS

A.5. Fuel Monitoring - To demonstrate compliance with Specific Condition No. A.2.b., the following shall apply:

a. the oil in the fuel tank shall be sampled after each new shipment of oil is received, as described under 40 CFR 60.46c(d)(2); or

b. a certification from the fuel supplier, as described in 40 CFR 60.48c(f)(1), shall be obtained.

[40 CFR 60.44c(g) and (h)]

NOTIFICATION REQUIREMENTS

A.6. Notification of Operation Commencement - The permittee shall notify the Compliance Authority in writing of the date of commencing operation of EU No. 004, no later than fifteen (15) days after that date. Commencing operation means setting into operation of any emissions unit for any purpose.
[Rule 62-4.070, F.A.C., and Rule 62-210.200, F.A.C., ("Commence Operation"); 40 CFR 60.48c(a)]

RECORDS AND REPORTS

A.7. Operating Recordkeeping Requirements - In order to demonstrate compliance with Specific Condition Nos. A.2. and A.3., the permittee shall record the following for each heater:

DAILY

a. facility name, facility ID No., emission unit ID No., and description (e.g., FP&L Port Manatee Oil Storage Facility, 0810024, EU 003, GTS Energy fuel oil heater);

b. type of each fuel used (natural gas or No. 2 fuel oil);

c. total quantity of each fuel type used;

MONTHLY

d. facility name, facility ID No., emission unit ID No., and description (e.g., FP&L Port Manatee Oil Storage Facility, 0810024, EU 003, GTS Energy fuel oil heater);

e. total amount of each type of fuel used (natural gas or No. 2 fuel oil); and

f. most recent consecutive 12 month rolling total amount of each fuel type used (natural gas or No. 2 fuel oil).

A.7. *(continued)*

These records shall be maintained at the facility for at least 3 years and made available to the Department upon request. Daily records shall be completed within 3 working days and monthly records shall be completed within 15 calendar days of the following month.

[Rule 62-4.070(3), F.A.C.; 40 CFR 60.48c(g)(1) and 40 CFR 60.48c(i)]

A.8. Semi-Annual Reporting – A report meeting the requirements of 40 CFR 60.48c(e), shall be sent to the Compliance Authority every six months. The reporting period is defined by the Department as from January 1 to June 30 & from July 1 to December 31 of each calendar year. If fuel supplier certification is used to demonstrate compliance (see Specific Condition A.5.b.) the report shall include a certified statement signed by the owner or operator that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period. The reports shall be postmarked by the 30th day following the end of the reporting period.
[Rule 62-4.070(3), F.A.C.; 40 CFR 60.48c]