



# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

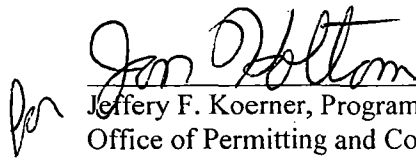
Mr. Randall R. LaBauve, Vice President  
Florida Power and Light Company  
700 Universe Boulevard  
Juno Beach, Florida 33408

Re: Project No. 0090006-007-AC  
Florida Power and Light Company, Cape Canaveral Energy Center  
Air Construction Permit Revision  
Changes to Excess Emissions Provisions for the Gas Turbines, Maximum Heat Input for the Process Heaters and Hours of Operation for the Emergency Generators

Dear Mr. LaBauve:

On September 8, 2011, you submitted a permit revision application requesting changes to the current air construction permit (0090006-005-AC) for excess emissions provisions for the gas turbines, the maximum heat input for the process heaters and the hours of operation for the emergency generators at the facility. The facility is located in Brevard County, at 6000 North U.S. Highway 1 between Cocoa and Titusville, Florida. Enclosed are the following documents: the Technical Evaluation and Preliminary Determination; the Draft Permit Revision; the Written Notice of Intent to Issue Air Permit; and the Public Notice of Intent to Issue Air Permit. The Public Notice of Intent to Issue Air Permit is the actual notice that you must have published in the legal advertisement section of a newspaper of general circulation in the area affected by this project. If you have any questions, please contact the project engineer, Tom Cascio, at 850-717-9077.

Sincerely,

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

10/10/11  
Date

Enclosures

JFK/jkh/tbc

## WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

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*In the Matter of an  
Application for Air Permit by:*

Florida Power and Light Company  
700 Universe Boulevard  
Juno Beach, Florida 33408

*Authorized Representative:*  
Mr. Randall R. LaBauve, Vice President

Project No. 0090006-007-AC  
Air Construction Permit Revision  
Brevard County, Florida

Cape Canaveral Energy Center  
Excess Emissions for Gas  
Turbines, Heat Input for Process  
Heaters and the Hours of  
Operation for Emergency  
Generators

**Facility Location:** Florida Power and Light Company operates the existing Cape Canaveral Energy Center, which is located in Brevard County at 6000 North U.S. Highway 1 between Cocoa and Titusville, Florida.

**Project:** The project will revise permit conditions related to excess emissions provisions for the gas turbines (clarified), the maximum heat input for the process heaters (decreased) and the hours of operation (decreased) for the emergency generators. There will be no emissions increases and the project is not subject to prevention of significant deterioration (PSD) preconstruction review. Details of the project are provided in the application and the enclosed Technical Evaluation and Preliminary Determination.

**Permitting Authority:** Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Permitting Authority responsible for making a permit determination for this project is the Department of Environmental Protection's Office of Air Permitting and Compliance in Tallahassee. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/717-9000.

**Project File:** A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at address indicated above for the Permitting Authority. The complete project file includes the draft permit, the Technical Evaluation and Preliminary Determination, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address or phone number listed above.

**Notice of Intent to Issue Permit:** The Permitting Authority gives notice of its intent to issue an air permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of the proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C. The Permitting Authority will issue a final permit in accordance with the conditions of the draft permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

**Public Notice:** Pursuant to Section 403.815, F.S. and Rules 62-110.106 and 62-210.350, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Permit (Public Notice). The Public Notice shall be published one time only as soon as possible in the legal advertisement section of a newspaper of general circulation in the area affected by this project. The newspaper used must meet the requirements of Sections 50.011 and 50.031, F.S. in the county where the activity is to take

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Florida Power and Light Company  
Cape Canaveral Energy Center

Project No. 0090006-007-AC  
Excess Emissions for Gas Turbines  
Heat Input for Process Heaters  
Hours of Operation for Emergency Generators

## WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

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place. If you are uncertain that a newspaper meets these requirements, please contact the Permitting Authority at above address or phone number. Pursuant to Rule 62-110.106(5) and (9), F.A.C., the applicant shall provide proof of publication to the Permitting Authority at the above address within 7 days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rule 62-110.106(11), F.A.C.

**Comments:** The Permitting Authority will accept written comments concerning the draft permit for a period of 14 days from the date of publication of the Public Notice. Written comments must be received by the Permitting Authority by close of business (5:00 p.m.) on or before the end of the 14-day period. If written comments received result in a significant change to the draft permit, the Permitting Authority shall revise the draft permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

**Petitions:** A person whose substantial interests are affected by the proposed 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 with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000 (Telephone: 850/245-2241). Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this Written Notice of Intent to Issue Air Permit. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the attached Public Notice or within 14 days of receipt of this Written Notice of Intent to Issue Air Permit, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall 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 (in a proceeding initiated by another party) 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 when and how each petitioner received notice of the agency action or proposed decision; (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, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the 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.

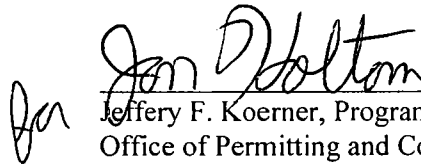
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Written Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the

**WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT**

proceeding, in accordance with the requirements set forth above.

**Mediation:** Mediation is not available in this proceeding.

Executed in Tallahassee, Florida.

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

10/10/11  
Date

**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Written Notice of Intent to Issue Air Permit package (including the Written Notice of Intent to Issue Air Permit, the Public Notice of Intent to Issue Air Permit, the Technical Evaluation and Preliminary Determination and the Draft Permit Revision) 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 10-10-11 to the persons listed below.

- Mr. Randall R. LaBauve, FPL: [Randall.R.LaBauve@fpl.com](mailto:Randall.R.LaBauve@fpl.com)
- Ms. Mary Archer, FPL: [mary.archer@fpl.com](mailto:mary.archer@fpl.com)
- Mr. Kennard F. Kosky, P.E., Golder Associates, Inc.: [ken\\_kosky@golder.com](mailto:ken_kosky@golder.com)
- Ms. Caroline Shine, DEP Central District: [caroline.shine@dep.state.fl.us](mailto:caroline.shine@dep.state.fl.us)
- Ms. Cindy Mulkey, DEP Siting Office: [cindy.mulkey@dep.state.fl.us](mailto:cindy.mulkey@dep.state.fl.us)
- Ms. Heather Abrams, U.S. EPA Region 4: [abrams.heather@epa.gov](mailto:abrams.heather@epa.gov)
- Ms. Katy R. Forney, U.S. EPA Region 4: [forney.kathleen@epa.epa.gov](mailto:forney.kathleen@epa.epa.gov)
- Ms. Ana Oquendo-Vazquez, U.S. EPA Region 4: [oquendo.ana@epa.gov](mailto:oquendo.ana@epa.gov)
- Ms. Barbara Friday, DEP OPC: [barbara.friday@dep.state.fl.us](mailto:barbara.friday@dep.state.fl.us) (for posting with U.S. EPA, Region 4)
- Ms. Lynn Scarce, DEP OPC: [lynn.scarce@dep.state.fl.us](mailto:lynn.scarce@dep.state.fl.us) (for reading file)

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 Scarce (Clerk) October 10, 2011 (Date)

## PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Florida Department of Environmental Protection  
Office of Permitting and Compliance  
Draft Air Construction Permit Revision  
Project No. 0090006-007-AC  
Florida Power and Light Company, Cape Canaveral Energy Center  
Brevard County, Florida

**Applicant:** The applicant for this project is Florida Power and Light Company. The applicant's authorized representative and mailing address are: Mr. Randall R. LaBauve, Vice President, Florida Power and Light Company, Cape Canaveral Energy Center, 700 Universe Boulevard, Juno Beach, Florida 33408.

**Facility Location:** Florida Power and Light Company operates the existing Cape Canaveral Energy Center, which is located in Brevard County, at 6000 North U.S. Highway 1 between Cocoa and Titusville, Florida.

**Project:** The project will revise specific conditions of current air construction permit 0090006-005-AC related to excess emissions provisions for the gas turbines (clarified), the maximum heat input for the process heaters (decreased) and the hours of operation (decreased) for the emergency generators at the facility. There will be no emissions increases and the project is not subject to prevention of significant deterioration (PSD) preconstruction review.

**Permitting Authority:** Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210 and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Permitting Authority responsible for making a permit determination for this project is the Department of Environmental Protection's Office of Permitting and Compliance in Tallahassee. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/717-9000.

**Project File:** A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at the physical address indicated above for the Permitting Authority. The complete project file includes the draft permit, the Technical Evaluation and Preliminary Determination, the application and information submitted by the applicant (exclusive of confidential records under Section 403.111, F.S.). Interested persons may contact the Permitting Authority's project engineer for additional information at the address and phone number listed above. In addition, electronic copies of these documents are available on the following web site: <http://www.dep.state.fl.us/air/emission/apds/default.asp>.

**Notice of Intent to Issue Air Permit:** The Permitting Authority gives notice of its intent to issue an air construction permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a final permit in accordance with the conditions of the draft permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

**Comments:** The Permitting Authority will accept written comments concerning the draft permit for a period of 14 days from the date of publication of this Public Notice. Written comments must be received by the Permitting Authority by close of business (5:00 p.m.) on or before the end of the 14-day period. If written comments received result in a significant change to the draft permit, the Permitting Authority shall revise the draft permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

**Petitions:** A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the

(Public Notice to be Published in the Newspaper)

information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000 (Telephone: 850/245-2241). Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 days of publication of this Public Notice or receipt of a written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall 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 (in a proceeding initiated by another party) 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 rights will be affected by the agency determination; (c) A statement of when and how the petitioner received notice of the agency action or proposed decision; (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, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the 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 Permitting Authority's final action may be different from the position taken by it in this Public Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

**Mediation:** Mediation is not available for this proceeding.

Florida Department of  
Environmental Protection

Memorandum

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To: *JKH* Jeff Koerner *JKH*  
Through: Jon Holtom *JKH*  
From: Tom Cascio *TOM*  
Date: September 23, 2011  
Subject: Draft Air Construction Permit Revision  
Project No. 0090006-007-AC  
Florida Power and Light Company, Cape Canaveral Energy Center  
Excess Emissions Provisions for the Gas Turbines, Maximum Heat Input for the Process Heaters  
and Hours of Operation for the Emergency Generators

Attached for your review is a draft air construction permit revision package for the Cape Canaveral Energy Center, which is located in Brevard County, at 6000 North U.S. Highway 1 between Cocoa and Titusville, Florida. Briefly, the draft permit authorizes revisions to the excess emissions provisions for the gas turbines, maximum heat input for the process heaters and hours of operation for the emergency generators at the facility. The attached Technical Evaluation and Preliminary Determination provides a detailed description of the project and the rationale for permit issuance. Note that the revisions related to the gas turbines are similar to recently implemented revisions to the West County Energy Center air construction permit. I recommend your approval of the attached draft permit revision package.

The application was received on September 8, 2011. Today is day 15 on the permitting clock.

Attachments

JKH/tbc

P.E. CERTIFICATION STATEMENT

PERMITTEE

Florida Power and Light Company  
700 Universe Boulevard  
Juno Beach, Florida 33408

Project No. 0060009-007-AC  
Cape Canaveral Energy Center  
Air Construction Permit Revision  
Excess Emissions Provisions for the  
Gas Turbines, Maximum Heat Input  
for the Process Heaters and Hours of  
Operation for the Emergency  
Generators  
Brevard County, Florida

PROJECT DESCRIPTION

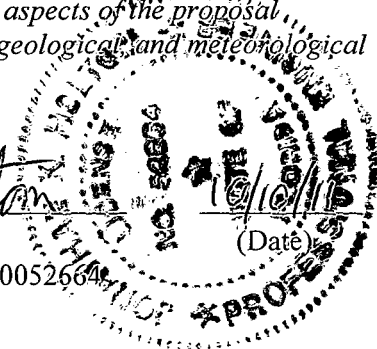
This project authorizes revisions to the excess emissions provisions for the gas turbines, maximum heat input for the process heaters and hours of operation for the emergency generators at the facility.

The Department's full review of the project and rationale for issuing the draft permit revision is provided in the Technical Evaluation and Preliminary Determination.

*I HEREBY CERTIFY that the air pollution control engineering features described in the above referenced application and subject to the proposed permit conditions provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify any other aspects of the proposal (including, but not limited to, the electrical, mechanical, structural, hydrological, geological, and meteorological features).*



Jon K. Holtom, P.E.  
Registration Number 0052664





**TECHNICAL EVALUATION  
AND  
PRELIMINARY DETERMINATION**

**APPLICANT**

Florida Power and Light Company (FPL)

700 Universe Blvd.  
Juno Beach, Florida 33408

Cape Canaveral Energy Center  
Facility ID No. 0090006

**PROJECT**

Draft Permit Revision No. 0090006-007-AC

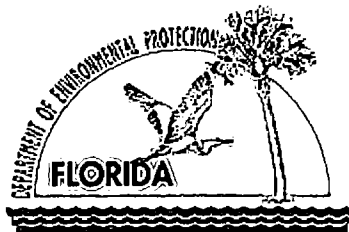
Excess Emissions Provisions for the Gas Turbines,  
Maximum Heat Input for the Process Heaters and  
Hours of Operation for the Emergency Generators

**COUNTY**

Brevard County, Florida

**PERMITTING AUTHORITY**

Florida Department of Environmental Protection  
Division of Air Resource Management  
Office of Permitting and Compliance  
2600 Blair Stone Road, MS#5505  
Tallahassee, Florida 32399-2400



October 6, 2011

## **1. GENERAL PROJECT INFORMATION**

### **Air Pollution Regulations**

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control – General Provisions); 62-210 (Stationary Sources – General Requirements); 62-212 (Stationary Sources – Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources - Emission Standards); and 62-297 (Stationary Sources – Emissions Monitoring). Specifically, air construction permits are required pursuant to Rules 62-4, 62-210 and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations on a quarterly basis in Rule 62-204.800, F.A.C.

### **Facility Description and Location**

This facility is an existing power plant, which is categorized under Standard Industrial Classification Code No. 4911. This existing plant is located in Brevard County at 6000 North U.S. Highway 1 between Cocoa and Titusville, Florida. The Universal Transverse Mercator (UTM) coordinates are Zone 17, 523.1 kilometers (km) East and 3,149 km North.

This site is in an area that is in attainment (or designated as unclassifiable) for all air pollutants subject to state and federal Ambient Air Quality Standards (AAQS).

### **Facility Regulatory Categories**

- The facility is a major source of hazardous air pollutants (HAP).
- This facility operates units subject to the acid rain provisions of the Clean Air Act.
- The facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

### **Project Description**

The applicant requested an air construction permit revision to change several conditions related to excess emissions provisions for the gas turbines, the maximum heat input for the process heaters and the hours of operation for the emergency generators at the facility.

### **Application Processing Schedule**

Application for an Air Construction Permit Revision received on September 8, 2011.

### **Relevant Documents**

- Permit No. 0090006-005-AC (currently active, with expiration date December 31, 2014).

## **2. PSD APPLICABILITY**

### **General PSD Applicability**

For areas currently in attainment with the state and federal AAQS or areas otherwise designated as unclassifiable, the Department regulates major stationary sources of air pollution in accordance with Florida's PSD preconstruction review program as defined in Rule 62-212.400, F.A.C. Under preconstruction review, the Department first must determine if a project is subject to the PSD requirements ("PSD applicability review") and, if so, must conduct a PSD preconstruction review. A PSD applicability review is required for projects at new and existing major stationary sources. In addition, proposed projects at existing minor sources are subject to a PSD applicability review to determine whether potential emissions *from the proposed project itself* will exceed the PSD major stationary source thresholds. A facility is considered a major stationary source with respect to PSD if it emits or has the potential to emit:

- 5 tons per year or more of lead;
- 250 tons per year or more of any regulated air pollutant; or
- 100 tons per year or more of any regulated air pollutant and the facility belongs to one of the following 28 PSD-major facility categories: fossil fuel-fired steam electric plants of more than 250 million British thermal units per hour heat input, coal cleaning plants (with thermal dryers), Kraft pulp mills, portland cement plants, primary zinc smelters, iron and steel mill plants, primary aluminum ore reduction plants, primary copper smelters, municipal incinerators capable of charging more than 250 tons of refuse per day, hydrofluoric, sulfuric, and nitric acid plants, petroleum refineries, lime plants, phosphate rock processing plants, coke oven batteries, sulfur recovery plants, carbon black plants (furnace process), primary lead smelters, fuel conversion plants, sintering plants, secondary metal production plants, chemical process plants, fossil fuel boilers (or combinations thereof) totaling more than 250 million British thermal units per hour heat input, petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels, taconite ore processing plants, glass fiber processing plants and charcoal production plants.

Once it is determined that a project is subject to PSD preconstruction review, the project emissions are compared to the "significant emission rates" defined in Rule 62-210.200, F.A.C. for the following pollutants: carbon monoxide (CO); nitrogen oxides (NO<sub>x</sub>); sulfur dioxide (SO<sub>2</sub>); particulate matter (PM); particulate matter with a mean particle diameter of 10 microns or less (PM<sub>10</sub>); volatile organic compounds (VOC); lead (Pb); fluorides (F); sulfuric acid mist (SAM); hydrogen sulfide (H<sub>2</sub>S); total reduced sulfur (TRS), including H<sub>2</sub>S; reduced sulfur compounds, including H<sub>2</sub>S; municipal waste combustor organics measured as total tetra- through octa-chlorinated dibenzo-p-dioxins and dibenzofurans; municipal waste combustor metals measured as PM; municipal waste combustor acid gases measured as SO<sub>2</sub> and hydrogen chloride (HCl); municipal solid waste landfills emissions measured as non-methane organic compounds (NMOC); and mercury (Hg). In addition, significant emissions rate also means any emissions rate or any net emissions increase associated with a major stationary source or major modification which would construct within 10 kilometers of a Class I area and have an impact on such area equal to or greater than 1 µg/m<sup>3</sup>, 24-hour average.

If the potential emission exceeds the defined significant emissions rate of a PSD pollutant, the project is considered "significant" for the pollutant and the applicant must employ the Best Available Control Technology (BACT) to minimize the emissions and evaluate the air quality impacts. Although a facility or project may be *major* with respect to PSD for only one regulated pollutant, it may be required to install BACT controls for several "significant" regulated pollutants.

### **PSD Applicability for Project**

The project will revise permit conditions related to excess emissions provisions for the gas turbines (clarified), the maximum heat input for the process heaters (decreased) and the hours of operation (decreased) for the emergency generators. There will be no emissions increases and the project is not subject to PSD preconstruction review.

### 3. DEPARTMENT REVIEW

#### Response to Requested Revisions

The applicant requested changes to the current construction permit (0090006-005-AC) by letter received on September 8, 2011, as explained below:

#### Gas Turbines

1. Specific Conditions **A.12.**, **15.** and **17.** of the current permit describe various permit requirements including visible emissions limitations, excess emissions allowed and continuous emissions monitoring system (CEMS) data that may be excluded from the appropriate averaging period.

#### Applicant's Requested Changes:

- a. The applicant requested that current air construction permit be revised to include allowable visible emissions for fuel switch operations.
- b. The applicant requested that the permit conditions reflect normal startup, shutdown and documented malfunctions of the combustion turbine/HRSG system.
- c. The applicant requested clarifications of which emissions data are allowed to be omitted from reporting of excess emissions.
- d. The applicant requested that the permit allow the use of 40 CFR Part 75 monitoring procedures for CO emissions.

#### Department's Responses:

The Department agrees with these changes. Specifically:

- a. Although the emissions unit description and specific conditions in 0090006-005-AC allow different methods of operation, e.g., fuel switches, the current permit does not include defined periods of normal operation of the combustion turbine/HRSG system for warm startup, shutdown and malfunction. Therefore, defined periods for "Gas Turbine/HRSG System Warm Startup," "Shutdown Gas Turbine/HRSG System," and "Documented Malfunction" for the combustion turbine/HRSG system are added to the permit language.
  - b. The word "excess" is changed to "excluded" to clearly indicate which data are excluded from the averaging period.
  - c. Excess emissions of NO<sub>x</sub> and CO resulting from startup, shutdown, or malfunction shall be excluded from CEMS data. The requested clarifications are made as shown in the draft permit revision document.
2. Specific Condition **A.17.** addresses tuning sessions and lead time for notification to the compliance authority prior to start.

#### Applicant's Requested Changes:

The applicant requested that manufacturer required Full Speed No Load (FSNL) trip tests be added to the Specific Condition for exclusion from CEMS compliance demonstration and that the advanced notice lead time changed from 7 days to one working day.

#### Department's Responses:

The Department agrees and the changes were made in the draft permit.

3. Specific Condition **A.24.** addresses continuous emissions monitors.

#### Applicant's Requested Changes:

The applicant requested the permit allow the use of 40 CFR Part 75 monitoring for CO emissions.

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

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### Department's Responses:

The Department agrees and the changes were made in the draft permit.

4. Specific Condition A.31., contains excess emissions reporting requirements and specifies the format to be used when reporting quarterly State Implementation Plan (SIP) excess emissions.

### Applicant's Requested Changes:

- a. The request is to clarify SIP excess emissions reporting.
- b. A modified NSPS Figure 1, entitled "Figure XSE" was proposed for use.

### Department's Responses:

- a. The requested clarifications are made as shown in the Draft permit revision document.
- b. The Department agrees that the proposed figure is more appropriate for SIP use than using the NSPS Figure 1, therefore, a new "Figure XSE" is attached to the draft permit revision for use.

### Fuel Gas Heaters

5. Applicant's Requested Changes:

For the fuel gas heaters (EU 010), the applicant plans to install two 9.9 mmBtu/hr heaters in place of the 10 mmBtu/hr heaters originally permitted for the site. With this change, the heaters are not regulated sources under either 40 CFR Part 60 or Part 63.

### Department's Responses:

The Department agrees to this change and the draft permit was revised.

### Emergency Generators

6. Applicant's Requested Changes:

For the emergency generators (EU 012), the applicant proposes that the hours of operation requirement for the diesel generators conform to 40 CFR 63, Subpart ZZZZ and 40 CFR 60, Subpart IIII, with a limit on operation for testing and maintenance checks not to exceed 100 hours and unlimited operation for emergency use.

### Department's Responses:

The Department agrees to this change and the draft permit was revised.

### **Revisions**

The approved revisions are shown in ~~strike through~~ (for deletions) and double-underlines (for additions) format within the permit revision itself.

## **4. PRELIMINARY DETERMINATION**

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the draft permit. No air quality modeling analysis is required because the project does not result in a significant increase in emissions.

Dr. Tom Cascio is the project engineer responsible for reviewing the application and drafting the permit revision. Additional details of this analysis may be obtained by contacting him by telephone at 850/717-9077 or by e-mail at [tom.cascio@dep.state.fl.us](mailto:tom.cascio@dep.state.fl.us) in the Department's Office of Permitting and Compliance at Mail Station #5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

**PERMITTEE**

Florida Power and Light Company (FPL)  
Cape Canaveral Energy Center

Authorized Representative:  
Mr. Randall R. LaBauve, Vice President

Draft Permit No. 0090006-007-AC  
Air Construction Permit Revision -  
Changes to Excess Emissions Provisions for the  
Gas Turbines, Maximum Heat Input for the  
Process Heaters and Hours of Operation for the  
Emergency Generators  
  
Cape Canaveral Energy Center  
Brevard County, Florida

**PROJECT**

This is the final air construction permit revision which revises specific conditions of Permit No. 0090006-005-AC for the 1,250 megawatt (MW) combined cycle unit at the Cape Canaveral Energy Center. The revised permit conditions are related to excess emissions provisions for the gas turbines, the maximum heat input for the process heaters and the hours of operation for the emergency generators. The existing plant is a power plant categorized under Standard Industrial Classification No. 4911. The plant is located at 6000 North U.S. Highway 1 between Cocoa and Titusville in Brevard County. The Universal Transverse Mercator (UTM) coordinates are Zone 17, 523.1 kilometers (km) East and 3,149 km North. This final permit is organized into the following sections: Section 1 (General Information) and Section 2 (Permit Revisions). 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 revision 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 revision shall be filed with the referenced permit and shall become part of the permit.

Upon issuance of this final permit revision, 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

*(DRAFT)*

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

\_\_\_\_\_  
(Date)

JFK/jkh/tbc

**PERMIT REVISION**

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**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 Revision) 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.

- Mr. Randall R. LaBauve, FPL: [Randall.R.LaBauve@fpl.com](mailto:Randall.R.LaBauve@fpl.com)
- Ms. Mary Archer, FPL: [mary.archer@fpl.com](mailto:mary.archer@fpl.com)
- Mr. Kennard F. Kosky, P.E., Golder Associates, Inc.: [ken\\_kosky@golder.com](mailto:ken_kosky@golder.com)
- Ms. Caroline Shine, DEP Central District: [caroline.shine@dep.state.fl.us](mailto:caroline.shine@dep.state.fl.us)
- Ms. Cindy Mulkey, DEP Siting Office: [cindy.mulkey@dep.state.fl.us](mailto:cindy.mulkey@dep.state.fl.us)
- Ms. Heather Abrams, U.S. EPA Region 4: [abrams.heather@epa.gov](mailto:abrams.heather@epa.gov)
- Ms. Katy R. Forney, U.S. EPA Region 4: [forney.kathleen@epa.epa.gov](mailto:forney.kathleen@epa.epa.gov)
- Ms. Ana Oquendo-Vazquez, U.S. EPA Region 4: [oquendo.ana@epa.gov](mailto:oquendo.ana@epa.gov)
- Ms. Barbara Friday, DEP OPC: [barbara.friday@dep.state.fl.us](mailto:barbara.friday@dep.state.fl.us) (for posting with U.S. EPA, Region 4)
- Ms. Lynn Scarce, DEP OPC: [lynn.scarce@dep.state.fl.us](mailto:lynn.scarce@dep.state.fl.us) (for reading file)

Clerk Stamp

**FILED 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

## SECTION 2. PERMIT REVISIONS

The following facility unit description table and permit specific conditions are revised as indicated. ~~Strikethrough~~ is used to denote the deletion of text. Double-underlines are used to denote the addition of text.

**Air Construction Permit Being Revised:** Permit No. 0090006-005-AC (expiration date December 31, 2014)

### Emission Unit Description

ID	Emission Unit Description
006	Unit 3A – one nominal 265 MW CTG with supplementary-fired HRSG
007	Unit 3B – one nominal 265 MW CTG with supplementary-fired HRSG
008	Unit 3C – one nominal 265 MW CTG with supplementary-fired HRSG
009	One nominal 85,000 pounds per hour (lb/hr) auxiliary boiler (99.8 mmBtu/hr)
010	Two nominal <del>10</del> <u>9.9</u> mmBtu/hr natural gas-fired process heaters (one is a spare)
011	Seven nominal 1,340 horsepower (hp) natural gas compressors
012	Two nominal 2,250 kilowatts (kW) liquid fueled emergency generators
013	One nominal 300-hp emergency diesel fire pump engine and 500 gallon fuel oil storage tank
014	One temporary 110 mmBtu/hr natural gas-fueled boiler to be used only during construction

- 1. Affected Emissions Units:** Combined Cycle Combustion Turbines (CT) and Heat Recovery Steam Generators (HRSG) (E.U. ID Nos. 006 - 008)

Specific Conditions **A.12., 15., 17., 24.** and **31.** of Permit No. 0090006-005-AC are hereby changed as follows (the remainder of the permit remains unchanged as a result of this permitting action):

**A.12. Alternate Visible Emissions Standard:** Visible emissions due to startups, shutdowns, fuel switches and malfunctions shall not exceed 10% opacity except for up to ten, 6-minute averaging periods during a calendar day, which shall not exceed 20% opacity. [Applicant Request and Rule 62-212.400(BACT), F.A.C.]

**A.15. Excess Emissions Allowed:** As specified in this condition, excess emissions resulting from startup, shutdown, fuel switching and documented malfunctions are allowed provided that operators employ the best operational practices to minimize the amount and duration of emissions during such incidents. ~~For each CTG/HRSG system, excess emissions of NO<sub>x</sub> and CO resulting from startup, shutdown, or documented malfunctions shall not exceed two hours in any 24-hour period except for the specific cases listed below. For each gas turbine/HRSG System, excess emissions of NO<sub>x</sub> and CO resulting from startup, shutdown, or malfunction shall be excluded from CEMS data in any 24-hour period (“any 24-hour period” means a calendar day, midnight to midnight) for the following conditions (these conditions are considered separate events and each event may occur independently within any 24-hour period):~~ A “documented malfunction” means a malfunction that is documented within one working day of detection by contacting the Compliance Authority by telephone, facsimile transmittal, or electronic mail.

- a. ~~STG/HRSG System Cold Startup:~~ Steam Turbine Cold Startup: For cold startup of the steam turbine system, ~~excess NO<sub>x</sub> and CO~~ excluded emissions from any ~~CTG turbine/HRSG~~ gas turbine/HRSG system shall not exceed eight (8) hours in any 24-hour period. A cold “startup of the steam turbine system” is defined as startup of the 3-on-1 combined cycle system following a shutdown of the steam turbine lasting at least 48 hours. *{Permitting note: During a cold startup of the ~~STG system~~ steam turbine, each gas turbine/HRSG system is sequentially brought on line at low load to gradually increase the temperature of the STG steam-electrical turbine and prevent thermal metal fatigue. Note that shutdowns and documented malfunctions are separately regulated in accordance with the requirements of this condition.}*
- b. ~~CTG Gas Turbine/HRSG System Cold Startup:~~ Gas Turbine/HRSG System Cold Startup: For cold startup of a gas turbine/HRSG system, excluded emissions shall not exceed four hours in any 24-hour period. “Cold startup of a ~~CTG gas turbine/HRSG~~ gas turbine/HRSG system” is defined as a startup after the pressure in the high-pressure (HP) steam drum falls below 450



## SECTION 1. GENERAL INFORMATION

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### FACILITY DESCRIPTION

The project authorized by 0090006-005-AC was a plant conversion that included the construction of a nominal 1,250 MW natural gas-fueled combined cycle unit (Unit 3) and ancillary equipment and required the permanent shutdown and dismantling of Units 1 and 2 at the facility. Unit 3 consists of:

- Three nominal 265 MW combustion turbine-electrical generators (CTG) with evaporative inlet cooling systems;
- Three supplementary-fired heat recovery steam generators (HRSG) with selective catalytic reduction (SCR) reactors;
- Three maximum 460 million Btu per hour, lower heating value (mmBtu/hr, LHV), natural gas-fueled duct burners (DB) located in the three HRSG (one DB/HRSG);
- Three 149-foot exhaust stacks; and
- One common nominal 500 MW steam-electrical generator (STG).

Unit 3 uses ultralow sulfur distillate (ULSD) fuel oil as backup fuel. Unit 3 relies on some of the existing infrastructure including one of the fuel oil storage tanks.

Additional ancillary equipment installed includes: a permanent auxiliary boiler; a temporary boiler used during the construction phase; two emergency generators; two process (fuel) heaters; a diesel fire pump; and a gas compression station.

### FACILITY REGULATORY CLASSIFICATION

- This facility is a major source of hazardous air pollutants (HAP).
- This facility operates units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400 (PSD), F.A.C.

### PROPOSED PROJECT

For the current project, the applicant has requested an air construction permit revision to change several of the underlying construction permit conditions related to the gas turbine excess emissions provisions, the heat input for the process heaters and the hours of operation for the emergency generators.

## SECTION 2. PERMIT REVISIONS

pounds per square inch gauge (psig) for at least a one-hour period.

- c. Gas Turbine/HRSG System Warm Startup: For warm startup of a gas turbine/HRSG system, excluded emissions shall not exceed two hours in any 24-hour period. “Warm startup of a gas turbine/HRSG system” is defined as a startup after the pressure in the high-pressure (HP) steam drum is above 450 psig.
- d. Shutdown Steam Turbine System Combined Cycle Operation: For shutdown of ~~steam turbine system~~ combined cycle operation, ~~excess NO<sub>x</sub> and CO~~ excluded emissions from any CTG-gas turbine/HRSG system shall not exceed three (3) hours in any 24-hour period.
- e. Gas Turbine/HRSG System Shutdown: For shutdown of the gas turbine/HRSG operation, excluded emissions from any gas turbine/HRSG system shall not exceed two hours in any 24-hour period.
- f. Fuel Switching: For fuel switching, ~~excess NO<sub>x</sub> and CO~~ excluded emissions shall not exceed 2 hours in any 24-hour period for each fuel switch and no more than four hours in any 24-hour period for any gas turbine/HRSG system.
- g. Documented Malfunction: For the gas turbine/HRSG system, excess emissions of NO<sub>x</sub> and CO resulting from documented malfunctions shall not exceed two hours in any 24-hour period. A “documented malfunction” means a malfunction that is documented within one working day of detection by contacting the Compliance Authority by telephone, facsimile transmittal, or electronic mail.

**A.17. DLN Tuning / FSNL Testing**: CEMS data collected during initial or other major DLN tuning sessions and during manufacturer required Full Speed No Load (FSNL) trip tests shall be excluded by the permittee from the CEMS compliance demonstration provided the tuning session is performed in accordance with the manufacturer’s specifications. A “major tuning session” would occur after completion of initial construction, a major repair or other similar circumstances. Prior to performing any major tuning session, where the intent is to exclude data from the CEMS compliance demonstration, the permittee shall provide the Compliance Authority with an advance notice of at least 7 days one working (business) day that details the activity and proposed tuning schedule. The notice may be by telephone, facsimile transmittal, or electronic mail.  
[Design; Rule 62-4.070(3), F.A.C.]

**A.24. Continuous Emissions Monitoring System(s) (CEMS)**: ...

- a. CO Monitors. For each CTG, the CO monitors shall be certified pursuant to 40 CFR 60, Appendix B, Performance Specification 4 or 4A within 60 calendar days of achieving permitted capacity as defined in Rule 62-297.310(2), F.A.C., but no later than 180 calendar days after initial startup. If “H” technology CTG are utilized, the described certification shall be performed on the CEMS associated with the first, and only with the first, installed CTG within 180 calendar days of achieving permitted capacity, but no later than 300 calendar days after initial startup. Quality assurance procedures shall conform to the requirements of 40 CFR 60, Appendix F or 40 CFR Part 75, and the Data Assessment Report in Section 7 shall be made each calendar quarter, and reported semiannually to the Compliance Authority. The RATA tests required for the CO monitor shall be performed using EPA Method 10 in Appendix A of 40 CFR 60 and shall be based on a continuous sampling train. The CO monitor span values shall be set appropriately considering the allowable methods of operation and corresponding emission standards.

**A.31. Excess Emissions Reporting**:

- a. Malfunction Notification: If emissions in excess of a standard (subject to the specified averaging period) occur due to malfunction, the permittee shall notify the Compliance Authority within (1) 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 Department may request a written summary report of the incident.
- b. SIP Quarterly Permit Limits Excess Emissions Report: Within 30 days following the end of each calendar-quarter, the permittee shall submit a report to the Compliance Authority summarizing periods of CO and NO<sub>x</sub> emissions in excess of the BACT permit emissions standards, and the amounts of authorized data excluded following the NSPS format in ~~40 CFR 60.7(e), Subpart A~~ Figure XSE attached

**SECTION 2. PERMIT REVISIONS**

to this permit. Periods of startup, shutdown and, malfunction, fuel switching and tuning shall be monitored, and recorded at all times and reported as excess emissions when emission levels exceed the standards specified in this permit. In addition, the report shall summarize the CEMS systems monitor availability for the previous quarter.

- c. *NSPS Semi-Annual Excess Emissions Reports:* For purposes of reporting emissions in excess of NSPS Subpart KKKK, excess emissions from the gas turbine are defined as: a specified averaging period over which either the NOx emissions are ~~higher than the applicable emission limit in 60.4320~~ greater than 15 ppm at 15% O<sub>2</sub> on a 30-day rolling average while firing natural gas and greater than 42 ppm at 15% O<sub>2</sub> on a 30-day rolling average while firing ultra low sulfur distillate; or the total sulfur content of the fuel being combusted in the affected facility exceeds the limit specified in 60.4330. Within thirty (30) days following each calendar semi-annual period, the permittee shall submit a report on any periods of excess emissions that occurred during the previous semi-annual period to the Compliance Authority.

*{Note: If there are no periods of excess emissions as defined in NSPS Subpart KKKK, a statement to that effect may be submitted with the SIP Quarterly Report to suffice for the NSPS Semi-Annual Report.}*

[Rules 62-4.130, 62-204.800, 62-210.700(6), F.A.C., and 40 CFR 60.7, and 60.4420]

- 2. **Affected Emissions Unit:** Two nominal 10 mmBtu/hr natural gas-fired process heaters (one is a spare) (E.U. ID No. 010)

Specific Condition Nos. **C.3.** **C.4.**, **C.5.** and **C.6.** from Permit No. 0090006-005-AC are hereby changed as follows:

ID	Emission Unit Description
010	Two nominal <del>10</del> <u>9.9</u> mmBtu/hr natural gas-fired process heaters (one is a spare)

**Equipment:** The permittee is authorized to install, operate, and maintain two ~~10~~ 9.9 mmBtu/hr process heaters for the purpose of heating the natural gas supply to the CTG.

[Applicant Request and Rule 62-210.200(PTE), F.A.C.]

**C.3. ~~NSPS Subpart De Applicability:~~** ~~Each process heater is subject to all applicable requirements of 40 CFR 60, Subpart De which applies to Small Industrial, Commercial, or Institutional Boiler. Specifically, each emission unit shall comply with 40 CFR 60.48e Reporting and Recordkeeping Requirements. [40 CFR 60, NSPS Subpart De Standards of Performance for Small Industrial Commercial Institutional Steam Generating Units, attached as Appendix De]~~

**C.4. ~~Emission Limits:~~** ~~Each natural gas fired process heater shall comply with the following emission limits.~~

NO <sub>x</sub>	CO	VOC, SO <sub>2</sub> , PM/PM <sub>10</sub>
0.095 lb/mmBtu	0.08 lb/mmBtu	2-gr S/100-SCF natural gas spec and 10% Opacity

[Applicant request; Rule 62-4.070(3), F.A.C.]

~~*{Permitting note: There are no Subpart De emission standards for gas fired process heaters fueled by natural gas.}*~~

**C.5. ~~Testing Requirements:~~** ~~Each unit shall be stack tested to demonstrate initial compliance with the emission standards for CO, NO<sub>x</sub> and visible emissions. The tests shall be conducted within 60 days after achieving the maximum production rate at which the unit will be operated, but not later than 180 days after the initial startup. As an alternative, a Manufacturer certification of emissions characteristics of the purchased model that are at least as stringent as the emission limits values can be used to fulfill this requirement.~~

[Rule 62-297.310(7)(a)1, F.A.C.]

~~**Test Methods:** Any required tests shall be performed in accordance with the following reference methods.~~

**SECTION 2. PERMIT REVISIONS**

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<b>Method</b>	<b>Description of Method and Comments</b>
7E	<del>Determination of Nitrogen Oxide Emissions from Stationary Sources</del>
9	<del>Visual Determination of the Opacity of Emissions from Stationary Sources</del>
10	<del>Determination of Carbon Monoxide Emissions from Stationary Sources</del>

**C.6. Notification, Recordkeeping and Reporting Requirements:** The permittee shall maintain records of the amount of natural gas used in the process heaters and ~~shall comply with the notification, recordkeeping and reporting requirements pursuant to 40 CFR 60.48e and 40 CFR 60.7.~~ These records shall be submitted to the Compliance Authority on an annual basis or upon request.

[Rule 62-4.070(3), F.A.C.; ~~40 CFR 60, Subparts A and De~~]

**3. Affected Emissions Unit:** Two nominal 2,250 kilowatts (kW) liquid fueled emergency generators (E.U. ID No. 012)

Specific Condition No. **E.2.** from Permit No. 0090006-005-AC is hereby changed as follows:

**E.2. Hours of Operation and Fuel Specifications:** The hours of operation shall not exceed ~~160 hours per year per generator~~ 100 hours per year for each engine for the purpose of maintenance checks and readiness test with unlimited operation for emergency use. The generators shall burn ultralow sulfur diesel fuel oil (0.0015% sulfur).

[Applicant Request and Rule 62-210.200(PTE), F.A.C.]

**FIGURE XSE**

**QUARTERLY EXCESS EMISSIONS AND MONITORING REPORT FOR SIP-ONLY STANDARDS**

Company: \_\_\_\_\_ Plant Name: \_\_\_\_\_

Address: \_\_\_\_\_

Emissions Unit ID No. \_\_\_\_\_ Description: \_\_\_\_\_

Pollutant (check one): \_\_\_ CO \_\_\_ NOx Emission Limitation: \_\_\_\_\_

Reporting period: \_\_\_ Q1 (Jan. - March) \_\_\_ Q2 (April - June) \_\_\_ Q3 (July - Sept.) \_\_\_ Q4 (Oct. - Dec.)  
Year: \_\_\_\_\_

Monitor Manufacturer: \_\_\_\_\_

Model No.: \_\_\_\_\_

Date of Latest CEMS Certification or Audit: \_\_\_\_\_

Total emissions unit operating time in reporting period<sup>1</sup>: \_\_\_\_\_ hours

Excluded Emission Data Summary <sup>1</sup>	CEMS Performance Summary <sup>1,5</sup>
1. Duration of excluded emissions due to: a. ST Cold Startup <sup>2</sup> ..... b. GT/HRSG Cold Startup <sup>2</sup> ..... c. GT/HRSG Warm Startup <sup>2</sup> ..... d. Shutdown..... e. Fuel Switching..... f. Documented Malfunction..... g. Tuning..... h. Total Authorized Data Excluded..... 2. Total duration of excluded emissions x (100%) / [Total source operating time]..... % 3. Number of Compliance Averages > Limit <sup>3</sup> .....	1. CEMS downtime due to: a. Monitor equipment malfunctions..... b. Non-Monitor equipment malfunctions..... c. Quality assurance calibration..... d. Other known causes..... e. Unknown causes..... 2. Total CEMS Downtime..... 3. Total CEMS Downtime x (100%) / [Total source operating time]..... % <sup>4</sup>

<sup>1</sup> For the reporting period, record all times in hours.

<sup>2</sup> "ST" means steam turbine. "GT/HRSG" means gas turbine/heat recovery steam generator.

<sup>3</sup> If an exceedance occurs after excluding data as authorized by permit, identify the number of non-compliant averages for the quarter. In addition, provide the hour-by-hour data for each non-compliant average and describe the circumstances causing the exceedance and the corrective actions taken.

<sup>4</sup> If the total CEMS downtime is 5% or greater of the total operating time, the permittee shall also submit a report identifying the problems with maintaining a monitor availability of at least 95% and the corrective actions planned for the next quarter.

<sup>5</sup> On a separate page, describe any changes in the CEMS, process equipment or control equipment since the last quarterly report.

I certify that the information contained in this report is true, accurate, and complete.

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## Scearce, Lynn

---

**From:** Scearce, Lynn  
**Sent:** Monday, October 10, 2011 9:40 AM  
**To:** 'Randall.R.LaBauve@fpl.com'  
**Cc:** 'mary.archer@fpl.com'; 'ken\_kosky@golder.com'; Shine, Caroline; Mulkey, Cindy; 'abrams.heather@epa.gov'; 'forney.kathleen@epa.gov'; 'oquendo.ana@epa.gov'; Cascio, Tom; Holtom, Jonathan; Friday, Barbara; Scearce, Lynn  
**Subject:** 0090006-007-AC, Cape Canaveral Plant, Notice of Draft Permit  
**Attachments:** 0090006-007-AC, Cape Canaveral Plant signature page.pdf

Tracking:	Recipient	Delivery	Read
	'Randall.R.LaBauve@fpl.com'		
	'mary.archer@fpl.com'		
	'ken_kosky@golder.com'		
	Shine, Caroline	Delivered: 10/10/2011 9:40 AM	
	Mulkey, Cindy	Delivered: 10/10/2011 9:40 AM	
	'abrams.heather@epa.gov'		
	'forney.kathleen@epa.gov'		
	'oquendo.ana@epa.gov'		
	Cascio, Tom	Delivered: 10/10/2011 9:40 AM	
	Holtom, Jonathan	Delivered: 10/10/2011 9:40 AM	
	Friday, Barbara	Delivered: 10/10/2011 9:40 AM	
	Scearce, Lynn	Delivered: 10/10/2011 9:40 AM	Read: 10/10/2011 9:41 AM

Dear Mr. Labauve:

Attached is the official **Notice of the Draft Permit** for the project referenced below. Click on the link displayed below to access the permit project documents and send a "reply" message verifying receipt of the document(s) provided in the link; this may be done by selecting "Reply" on the menu bar of your e-mail software, noting that you can view the documents, and then selecting "Send".

*Note: We must receive verification that you are able to access the documents. Your immediate reply will preclude subsequent e-mail transmissions to verify accessibility of the document(s).*

Owner/Company Name: FLORIDA POWER and LIGHT (PCC)  
Facility Name: CAPE CANAVERAL PLANT  
Project Number: 0090006-007-AC  
Permit Status: DRAFT  
Permit Activity: CONSTRUCTION  
Facility County: BREVARD

Click on the following link to access the permit project documents:  
[http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf\\_permit\\_zip\\_files/0090006.007.AC.D\\_pdf.zip](http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0090006.007.AC.D_pdf.zip)

The Office of Permitting and Compliance is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Access these documents by clicking on the link provided above, or search for other project documents using the "Air Permit Documents Search" website at <http://www.dep.state.fl.us/air/emission/apds/default.asp>.

Permit project documents addressed in this email may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible, and verify that they are accessible. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record. If you have any problems opening the documents or would like further information, please contact the Florida Department of Environmental Protection, Office of Permitting and Compliance.

Note: The attached document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site: <<http://www.adobe.com/products/acrobat/readstep.htm>> .

Regards,

**Lynn Searce**

Office of Permitting and Compliance (OPC)

Division of Air Resources Management

850-717-9025

**Scearce, Lynn**

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**From:** Microsoft Exchange  
**To:** Randall.R.LaBauve@fpl.com; mary.archer@fpl.com  
**Sent:** Monday, October 10, 2011 9:40 AM  
**Subject:** Relayed: 0090006-007-AC, Cape Canaveral Plant, Notice of Draft Permit

**Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:**

[Randall.R.LaBauve@fpl.com](mailto:Randall.R.LaBauve@fpl.com)

[mary.archer@fpl.com](mailto:mary.archer@fpl.com)

Subject: 0090006-007-AC, Cape Canaveral Plant, Notice of Draft Permit

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Sent by Microsoft Exchange Server 2007



**Scearce, Lynn**

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**From:** LaBauve, Randall R [Randall.R.LaBauve@fpl.com]  
**To:** Scearce, Lynn  
**Sent:** Monday, October 10, 2011 5:01 PM  
**Subject:** Read: 0090006-007-AC, Cape Canaveral Plant, Notice of Draft Permit

Your message was read on Monday, October 10, 2011 5:00:36 PM (GMT-05:00) Eastern Time (US & Canada).

**Scearce, Lynn**

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**From:** Kosky, Ken [Ken\_Kosky@golder.com]  
**To:** Scearce, Lynn  
**Sent:** Monday, October 10, 2011 2:20 PM  
**Subject:** Read: 0090006-007-AC, Cape Canaveral Plant, Notice of Draft Permit

Your message was read on Monday, October 10, 2011 2:20:12 PM (GMT-05:00) Eastern Time (US & Canada).