

Memorandum

Florida Department of Environmental Protection

TO: Joseph Kahn, Division of Air Resource Management
THROUGH: Trina Vielhauer, Bureau of Air Regulation
THROUGH: Jeff Koerner, New Source Review Section
FROM: Bruce Mitchell, New Source Review Section
DATE: October 15, 2009
SUBJECT: Final Air Construction Permit Modification No. 0850001-020-AC (PSD-FL-327C)
Florida Power & Light Company, Martin Plant
Changes to Excess Emissions Conditions, Unit 8

The final air construction permit for this project is attached for your approval and signature. The project requires a minor air construction permit to authorize the following changes made to specific conditions contained in original Permit No. PSD-FL-327B for excess emissions from combined cycle combustion turbine Unit 8 (4 on 1): an increase in excess emissions caused by a fuel switch from one hour to two hours during any 24-hour period; and a limit of two startup periods per combustion turbine during any 24-hour period. The project will not change the throughput capacity of combined cycle combustion turbine Unit 8. The proposed work will be performed at the existing Martin Plant located seven miles North of Indiantown on State Road 710 in Martin County, Florida. The project is not considered a new source review reform project.

The attached Final Determination summarizes the publication and comment process. There are no pending petitions for administrative hearings or extensions of time in which to file a petition for an administrative hearing. I recommend your approval of the attached final permit for this project.

Attachments

JK/tlv/jfk/rbm

FINAL DETERMINATION

PERMITTEE

Florida Power & Light (FP&L) Company
Post Office Box 176
Indiantown, Florida 34956-0176

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation, Air Permitting North Section
2600 Blair Stone Road, MS #5505
Tallahassee, Florida 32399-2400

PROJECT

Air Permit No. 0850001-020-AC
Martin Plant
Combined Cycle Combustion Turbine Unit 8 Modification

The project required a minor air construction permit to authorize the following for combined cycle combustion turbine Unit 8: an increase in excess emissions caused by a fuel switch from one hour to two hours during any 24-hour period; and a limit of two startup periods per combustion turbine during any 24-hour period. The project will not change the throughput capacity of combined cycle combustion turbine Unit 8. The proposed work will be performed at the existing Martin Plant.

NOTICE AND PUBLICATION

The Department distributed an initial Intent to Issue Permit package on September 9, 2009. The applicant published the Public Notice of Intent to Issue in the Scripps Treasure Coast Newspapers on September 23, 2009. The Department received the proof of publication on October 1, 2009. No petitions for administrative hearings or extensions of time to petition for an administrative hearing were filed.

COMMENTS

No comments on the Draft Permit were received from the public, the Department's Southeast District office, the EPA Region 4 Office or the applicant.

CONCLUSION

The final action of the Department is to issue the permit as noticed.



Florida Department of Environmental Protection

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

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

PERMITTEE

Florida Power & Light (FP&L) Company
Post Office Box 176
Indiantown, Florida 34956-0176

Authorized Representative:
Mr. William Reichel, Plant General Manager

Air Permit No. 0850001-020-AC
PSD-FL-327C
Air Construction Permit Revision
FP&L Martin Plant
Facility ID No. 0850001
Combined Cycle Unit 8
Changes to Excess Emissions

PROJECT

This is the final air construction permit revision, which modifies Permit No. PSD-FL-327 (as amended) for the existing combined cycle Unit 8 to: increase authorized excess emissions caused by a fuel switch from one hour to two hours during any 24-hour period; and a limit of two startup periods per combustion turbine during any 24-hour period. The FP&L Martin Plant is an electric utility categorized under Standard Industrial Classification No. 4911. The existing facility is located seven miles North of Indiantown on State Road 710, Martin County, Florida. The UTM coordinates are Zone 17, 542.68 km East and 2992.65 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 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 Tallahassee, Florida

Joseph Kahn, Director
Division of Air Resource Management

10/15/09
(Date)

FINAL PERMIT REVISION

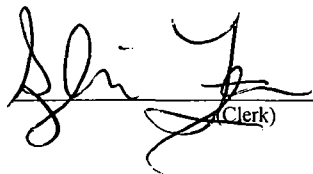
CERTIFICATE OF SERVICE

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 10/16/09 to the persons listed below.

- Mr. William Reichel, FP&L Plant General Manager (bill.reichel@fpl.com)
- Mr. Edward Preast, P.E., FP&L (ed_prest@fpl.com)
- Mr. Lennon Anderson, DEP Southeast Office (lennon.anderson@dep.state.fl.us)
- Mr. Michael Halpin, DEP Siting Coordination Office (mike.halpin@dep.state.fl.us)
- Ms. Heather Abrams, EPA Region 4 (abrams.heather@epa.gov)
- Ms. Ana Oquendo, EPA Region 4 (oquendo.ana@epa.gov)
- Ms. Katy Forney, EPA Region 4 (forney.kathleen@epa.gov)
- Ms. Barbara Friday, DEP BAR (barbara.friday@dep.state.fl.us)
- Ms. Vickie Gibson, DEP BAR Reading File (victoria.gibson@dep.state.fl.us)

Clerk Stamp

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



(Clerk)

10/16/09
(Date)

SECTION 1. GENERAL INFORMATION

FACILITY DESCRIPTION

Florida Power & Light (FP&L) Company operates the existing Martin Plant, which is an electric utility. This existing facility consists primarily of two oil and natural gas fired conventional fossil fuel steam electric generating stations (Units 1 and 2), two oil and natural gas fired combined cycle combustion turbines (Units 3 and 4), four oil and natural gas fired combined cycle combustion turbines (Unit 8) and associated support equipment.

FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
- The 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

This project revises Specific Condition 16 regarding excess emissions from combined cycle Unit 8. Specifically, the changes are to: increase authorized excess emissions caused by a fuel switch from one hour to two hours during any 24-hour period; and a limit of two startup periods during any 24-hour period.

SECTION 2. PERMIT REVISIONS

The following permit conditions are revised as indicated. ~~Strikethrough~~ is used to denote the deletion of text. Double-underlines are used to denote the addition of text. All changes are emphasized with yellow highlight.

Permit Being Modified: Permit No. 0850001-010-AC (PSD-FL-327)

Affected Emissions Units: EU-011, EU-012, EU-017 and EU-018

Section III. Subsection A. Specific Condition 16: This condition is revised as follows.

Excess Emissions Allowed. As specified in this condition, excess emissions resulting from startup, shutdown, oil-to-gas fuel switches and documented malfunctions are allowed provided that operators employ the best operational practices to minimize the amount and duration of emissions during such incidents. 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. For each gas turbine/HRSG system, excess emissions resulting from startup, shutdown, or documented malfunctions shall not exceed two hours in any 24-hour period ~~(or shall not exceed 8 hours per 4-unit site, with the additional provisions of a limit of 2 startup periods per 24 hours per unit)~~ except for the following specific cases. [0850001-010-AC (PSD-FL-327); Rules 62-212.400(BACT) and 62-210.700, F.A.C.; and 0850001-020-AC (PSD-FL-327C)]

Permit Being Modified: Permit No. 0850001-016-AC (PSD-FL-327B)

Affected Emissions Units: EU-011, EU-012, EU-017 and EU-018

Section III. Subsection A. Specific Condition 16.d: This condition is revised as follows.

Fuel Switching. For fuel switching (oil-to-gas or gas to oil), excess emissions shall not exceed ~~one (1)~~ two hours in any 24-hour period. [0850001-010-AC (PSD-FL-327); Rules 62-212.400(BACT) and 62-210.700, F.A.C.; 0850001-016-AC (PSD-FL-327B) and 0850001-020-AC (PSD-FL-327C)]

Livingston, Sylvia

From: Livingston, Sylvia
Sent: Friday, October 16, 2009 3:52 PM
To: bill.reichel@fpl.com
Cc: ed_prest@fpl.com; Anderson, Lennon; Halpin, Mike; abrams.heather@epa.gov; oquendo.ana@epa.gov; forney.kathleen@epa.gov; Friday, Barbara; Gibson, Victoria; Mitchell, Bruce; Koerner, Jeff; Walker, Elizabeth (AIR)
Subject: FL Power & Light - Martin Power Plant 0850001-020-AC/ PSD-FL-327C

Dear Sir/ Madam:

Attached is the official **Notice of Final 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).

Click on the following link to access the documents:

http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0850001.020.AC.F_pdf.zip

Owner/Company Name: FLORIDA POWER and LIGHT (PMR)

Facility Name: MARTIN POWER PLANT

Project Number: 0850001-020-AC/PSD-FL-327C

Permit Status: FINAL

Permit Activity: CONSTRUCTION

Facility County: MARTIN

Processor: Bruce Mitchell

The Bureau of Air Regulation 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/eproducts/apds/default.asp>.

Project documents that are 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, Bureau of Air Regulation at (850)488-0114.

Sylvia Livingston
Bureau of Air Regulation
Division of Air Resource Management (DARM)
850/921-9506
sylvia.livingston@dep.state.fl.us

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.html>.

Livingston, Sylvia

From: Reichel, Bill [Bill.Reichel@fpl.com]
Sent: Friday, October 23, 2009 3:45 PM
To: Livingston, Sylvia
Cc: Welch, Willie
Subject: RE: FL Power & Light - Martin Power Plant 0850001-020-AC/ PSD-FL-327C

Verification of receipt.

Bill Reichel
Florida Power & Light Co.

From: Livingston, Sylvia [mailto:Sylvia.Livingston@dep.state.fl.us]
Sent: Friday, October 16, 2009 3:52 PM
To: Reichel, Bill
Cc: Preast, Ed; Anderson, Lennon; Halpin, Mike; abrams.heather@epa.gov; oquendo.ana@epa.gov; forney.kathleen@epa.gov; Friday, Barbara; Gibson, Victoria; Mitchell, Bruce; Koerner, Jeff; Walker, Elizabeth (AIR)
Subject: FL Power & Light - Martin Power Plant 0850001-020-AC/ PSD-FL-327C

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