

Florida Department of
Environmental Protection

Memorandum

TO: Trina Vielhauer, Bureau of Air Regulation
THROUGH Jeff Koerner, New Source Review Section *JK*
FROM: Bruce Mitchell, New Source Review Section *BM*
DATE: September 8, 2009
SUBJECT: Draft Air Construction Permit Modification No. 0850001-020-AC (PSD-FL-327C)
Concurrent Draft/Proposed Title V Air Operation Permit No. 0850001-021-AV
Florida Power & Light Company, Martin Plant
Changes to Excess Emissions Conditions, Unit 8

Attached for your review are the following items: Written Notice of Intent to Issue Air Permits, Public Notice of Intent to Issue Air Permits, Air Construction Permit Modification, Technical Evaluation and Preliminary Determination, Draft/Proposed Title V Air Operation Permit, Statement of Basis and P.E. Certification. The draft air construction permit changes specific conditions in original Permit No. PSD-FL-327B regarding excess emissions from combined cycle combustion turbine Unit 8. The concurrent draft/proposed Title V revision incorporates these changes.

I recommend your approval of the attached draft/proposed permits package.

Attachments

P.E. CERTIFICATION STATEMENT

PERMITTEE

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

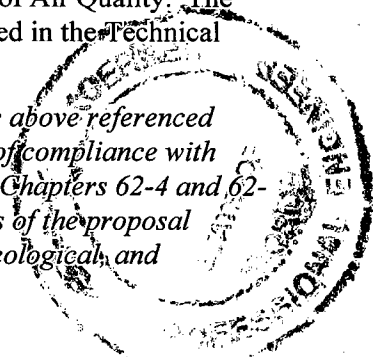
Project No. 0850001-020-AC (PSD-FL-327C)
Project No. 0850001-021-AV
FP&L Martin Plant
Combined Cycle Unit 8
Changes to Excess Emissions Conditions
Martin County, Florida

PROJECT DESCRIPTION

FP&L operates the existing Martin Plant, which is an electrical generating plant located seven miles North of Indiantown on State Road 710 in Martin County, Florida. FP&L submitted an application to modify conditions in the original air construction permit regarding excess emissions from combined cycle Unit 8 at the existing FP&L Martin Plant and concurrently revise the Title V air operation permit to incorporate the changes. Specifically, the applicant requests: increasing authorized excess emissions caused by a fuel switch from one hour to two hours during any 24-hour period; and authorization for two startup periods during any 24-hour period. The changes will provide additional flexibility to operate the combined cycle combustion turbines as designed.

This project is subject to the general preconstruction review requirements in Rule 62-212.300, Florida Administrative Code (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. The Department's full review of the project and rationale for issuing the draft permit 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, civil, mechanical, structural, hydrological, geological, and meteorological features).



Jeffery F. Koerner

Jeffery F. Koerner, P.E.
Registration Number 49441

9-4-09

(Date)



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

September 9, 2009

Electronic Mail – Received Receipt Requested.

Mr. William Reichel
Plant General Manager
Florida Power & Light (FP&L) Company
21900 SW Warfield Blvd.
Indiantown, Florida 34956

Re: Project No. 0850001-020-AC (PSD-FL-327C)
Project No. 0850001-021-AV
FP&L Martin Plant, Unit 8
Changes to Excess Emissions Conditions

Dear Mr. Reichel:

Enclosed is the permit package to modify conditions in the original air construction permit regarding excess emissions from combined cycle Unit 8 at the Martin Plant and concurrently revise the Title V air operation permit to incorporate the changes. This existing Martin Plant is located seven miles North of Indiantown on State Road 710 in Martin County, Florida. The permit package includes the following documents: the draft air construction permit modification; the Technical Evaluation and Preliminary Determination; the Statement of Basis; the draft/proposed Title V air operation permit; the Written Notice of Intent to Issue Air Permits; and the Public Notice of Intent to Issue Air Permits.

The Public Notice of Intent to Issue Air Permits 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. The Public Notice of Intent to Issue Air Permits must be published as soon as possible and the proof of publication must be provided to the Department within seven days of the date of publication. If you have any questions, please contact the Project Engineer, Bruce Mitchell, by telephone at 850/413-9198 or by email at bruce.mitchell@dep.state.fl.us.

Sincerely,

Trina L. Vielhauer, Chief
Bureau of Air Regulation

Enclosures

TLV/jfk/rbm

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMITS

In the Matter of an

Application for an Air Construction Permit Modification and a Title V Air Operation Permit Revision by:

Florida Power & Light (FP&L) Company

Post Office Box 176

Indiantown, Florida 34956-0176

Responsible Official:

Mr. William Reichel, Plant General Manager

Project No. 0850001-020-AC (PSD-FL-327C)

Project No. 0850001-021-AV

FP&L Martin Plant

Facility ID No. 0850001

Combined Cycle Unit 8

Changes to Excess Emissions Conditions

Martin County, Florida

Facility Location: FP&L operates the existing Martin Plant, which is located seven miles North of Indiantown on State Road 710 in Martin County, Florida.

Project: The purpose of this project is to modify conditions in the original air construction permit regarding excess emissions from combined cycle Unit 8 at the FP&L Martin Plant and concurrently revise the Title V air operation permit to incorporate the changes. Details of the project are provided in the application, the enclosed Technical Evaluation and Preliminary Determination and the enclosed Statement of Basis.

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.). Applications for Title V air operation permits are subject to review in accordance with the provisions of Chapter 403, F.S. and Chapters 62-4, 62-210, 62-213 and 62-214, F.A.C. The proposed project is not exempt from air permitting requirements; therefore, an air construction permit and a Title V air operation permit are required. The Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination for these projects. 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 850/488-0114.

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 address indicated above for the Permitting Authority. The complete project file includes the application, the draft/proposed permits, the Technical Evaluation and Preliminary Determination, the Statement of Basis and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may view the draft/proposed permits by visiting the following website, <http://www.dep.state.fl.us/air/emission/apds/default.asp>, and entering the project numbers shown above. 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 Permits: 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 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 air construction 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.

The Permitting Authority gives notice of its intent to issue a revised Title V air operation 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, 62-213, 62-214, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a final permit in accordance with the conditions of the draft/proposed permit unless a response received

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMITS

in accordance with the following procedures 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 place. If you are uncertain that a newspaper meets these requirements, please contact the Permitting Authority at the 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 air construction 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 this 14-day period. If written comments received result in a significant change to the draft air construction permit, the Permitting Authority shall revise the draft air construction permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

The Permitting Authority will accept written comments concerning the draft/proposed Title V air operation permit for a period of 30 days from the date of publication of the Public Notice. Written comments must be received by the close of business (5:00 p.m.), on or before the end of this 30-day period by the Permitting Authority at the above address. As part of his or her comments, any person may also request that the Permitting Authority hold a public meeting on this permitting action. If the Permitting Authority determines there is sufficient interest for a public meeting, it will publish notice of the time, date, and location in the Florida Administrative Weekly. If a public meeting is requested within the 30-day comment period and conducted by the Permitting Authority, any oral and written comments received during the public meeting will also be considered by the Permitting Authority. If timely received written comments or comments received at a public meeting result in a significant change to the draft/proposed Title V air operation permit, the Permitting Authority shall issue a revised draft/proposed Title V air operation permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection. For additional information, contact the Permitting Authority at the above address or phone number.

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, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. 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 Permits. 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 Permits, 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.

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMITS

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.

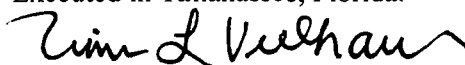
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Written Notice of Intent to Issue Air Permits. Persons whose substantial interests 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 in this proceeding.

EPA Review: EPA has agreed to treat the draft/proposed Title V air operation permit as a proposed Title V air operation permit and to perform its 45-day review provided by the law and regulations concurrently with the public comment period. Although EPA's 45-day review period will be performed concurrently with the public comment period, the deadline for submitting a citizen petition to object to the EPA Administrator will be determined as if EPA's 45-day review period is performed after the public comment period has ended. The final Title V air operation permit will be issued after the conclusion of the 45-day EPA review period so long as no adverse comments are received that result in a different decision or significant change of terms or conditions. The status regarding EPA's 45-day review of this project and the deadline for submitting a citizen petition can be found at the following website address: <http://www.epa.gov/region4/air/permits/Florida.htm>.

Objections: Finally, pursuant to 42 United States Code (U.S.C.) Section 7661d(b)(2), any person may petition the Administrator of the EPA within 60 days of the expiration of the Administrator's 45-day review period as established at 42 U.S.C. Section 7661d(b)(1), to object to the issuance of any Title V air operation permit. Any petition shall be based only on objections to the permit that were raised with reasonable specificity during the 30-day public comment period provided in the Public Notice, unless the petitioner demonstrates to the Administrator of the EPA that it was impracticable to raise such objections within the comment period or unless the grounds for such objection arose after the comment period. Filing of a petition with the Administrator of the EPA does not stay the effective date of any permit properly issued pursuant to the provisions of Chapter 62-213, F.A.C. Petitions filed with the Administrator of EPA must meet the requirements of 42 U.S.C. Section 7661d(b)(2) and must be filed with the Administrator of the EPA at: U.S. EPA, 401 M Street, S.W., Washington, D.C. 20460. For more information regarding EPA review and objections, visit EPA's Region 4 web site at <http://www.epa.gov/region4/air/permits/Florida.htm>.

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief
Bureau of Air Regulation

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMITS

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that either this Written Notice of Intent to Issue Air Permits (including the Public Notice of Intent to Issue Air Permits, the draft air construction permit, the Draft/Proposed Title V Permit, Technical Evaluation and Preliminary Determination and the Statement of Basis), or a link to these documents available electronically on a publicly accessible server, was sent by electronic mail with received receipt requested before the close of business on 9/9/09 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_preast@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.

Barbara Friday 9/9/09
(Clerk) (Date)

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMITS

Florida Department of Environmental Protection
Division of Air Resource Management, Bureau of Air Regulation
Draft Air Construction Permit Modification No. 0850001-020-AC (PSD-FL-327C)
Concurrent Draft/Proposed Title V Air Operation Permit No. 0850001-021-AV
Florida Power & Light Company, Martin Plant
Martin County, Florida

Applicant: The applicant for this project is Florida Power & Light (FP&L) Company. The applicant's responsible official and mailing address are: Mr. William Reichel, FP&L Plant General Manager, 21900 SW Warfield Blvd., Indiantown, Florida 34956.

Facility Location: FP&L operates the existing Martin Plant, which is an electrical generating plant located seven miles North of Indiantown on State Road 710 in Martin County, Florida.

Project: On July 6, 2009, FP&L submitted an application to modify conditions in the original air construction permit regarding excess emissions from combined cycle Unit 8 at the existing FP&L Martin Plant and concurrently revise the Title V air operation permit to incorporate the changes. Specifically, the applicant requests: increasing authorized excess emissions caused by a fuel switch from one hour to two hours during any 24-hour period; and limit to limit two startup periods during any 24-hour period. The changes will provide additional flexibility to operate the combined cycle combustion turbines as designed.

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.). Applications for Title V air operation permits are subject to review in accordance with the provisions of Chapter 403, F.S., and Chapters 62-4, 62-210, 62-213 and 62-214, F.A.C. The proposed project is not exempt from air permitting requirements; therefore, an air construction permit and a Title V air operation permit are required. The Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination for these projects. 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 850/488-0114.

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 address indicated above for the Permitting Authority. The complete project file includes the application, the draft/proposed permits, the Technical Evaluation and Preliminary Determination, the Statement of Basis and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may view the draft/proposed permits by visiting the following website, <http://www.dep.state.fl.us/air/emission/apds/default.asp>, and entering the project numbers shown above. 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 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 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 air construction 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.

The Permitting Authority gives notice of its intent to issue a revised Title V air operation 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, 62-213, 62-214, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a final permit in accordance with the conditions of the draft/proposed permit unless a response received

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PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMITS

in accordance with the following procedures results in a different decision or a significant change of terms or conditions.

Comments: The Permitting Authority will accept written comments concerning the draft air construction 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 this 14-day period. If written comments received result in a significant change to the draft air construction permit, the Permitting Authority shall revise the draft air construction permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

The Permitting Authority will accept written comments concerning the draft/proposed Title V air operation permit for a period of 30 days from the date of publication of the Public Notice. Written comments must be received by the close of business (5:00 p.m.), on or before the end of this 30-day period by the Permitting Authority at the above address. As part of his or her comments, any person may also request that the Permitting Authority hold a public meeting on this permitting action. If the Permitting Authority determines there is sufficient interest for a public meeting, it will publish notice of the time, date, and location in the Florida Administrative Weekly. If a public meeting is requested within the 30-day comment period and conducted by the Permitting Authority, any oral and written comments received during the public meeting will also be considered by the Permitting Authority. If timely received written comments or comments received at a public meeting result in a significant change to the draft/proposed Title V air operation permit, the Permitting Authority shall issue a revised draft/proposed Title V air operation permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection. For additional information, contact the Permitting Authority at the above address or phone number.

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, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. 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 Permits. 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 Permits, 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

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PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMITS

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 Permits. 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.

EPA Review: EPA has agreed to treat the draft/proposed Title V air operation permit as a proposed Title V air operation permit and to perform its 45-day review provided by the law and regulations concurrently with the public comment period. Although EPA's 45-day review period will be performed concurrently with the public comment period, the deadline for submitting a citizen petition to object to the EPA Administrator will be determined as if EPA's 45-day review period is performed after the public comment period has ended. The final Title V air operation permit will be issued after the conclusion of the 45-day EPA review period so long as no adverse comments are received that result in a different decision or significant change of terms or conditions. The status regarding EPA's 45-day review of this project and the deadline for submitting a citizen petition can be found at the following website address: <http://www.epa.gov/region4/air/permits/Florida.htm>.

Objections: Finally, pursuant to 42 United States Code (U.S.C.) Section 7661d(b)(2), any person may petition the Administrator of the EPA within 60 days of the expiration of the Administrator's 45-day review period as established at 42 U.S.C. Section 7661d(b)(1), to object to the issuance of any Title V air operation permit. Any petition shall be based only on objections to the permit that were raised with reasonable specificity during the 30-day public comment period provided in the Public Notice, unless the petitioner demonstrates to the Administrator of the EPA that it was impracticable to raise such objections within the comment period or unless the grounds for such objection arose after the comment period. Filing of a petition with the Administrator of the EPA does not stay the effective date of any permit properly issued pursuant to the provisions of Chapter 62-213, F.A.C. Petitions filed with the Administrator of EPA must meet the requirements of 42 U.S.C. Section 7661d(b)(2) and must be filed with the Administrator of the EPA at: U.S. EPA, 401 M Street, S.W., Washington, D.C. 20460. For more information regarding EPA review and objections, visit EPA's Region 4 web site at <http://www.epa.gov/region4/air/permits/Florida.htm>.

STATEMENT OF BASIS

PROJECT DESCRIPTION

On July 6, 2009, the applicant submitted a request to concurrently revise Title V Air Operation Permit No. 0850001-018-AV to incorporate the changes being made in air construction permit Project No. 0850001-020-AC (PSD-FL-327C) into the Title V air operation permit.

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.

Units 1 and 2 are fossil fuel fired steam electric generators, and each unit consists of a boiler/steam generator which drives a single reheat turbine generator. The maximum capacity of each generator is 863.3 megawatts (MW).

Units 3 and 4 (two "2-on-1" sets) consist of two General Electric Model PG7221(FA) combustion turbines, each nominally rated at 170 MW with matched unfired heat recovery steam generator (HRSG) and a 160 MW single steam turbine-electrical generator that serves each pair of combustion turbines/HRSG systems. The total generating capacity of each combined cycle unit is approximately 500 MW.

Unit 8 (one "4-on-1" set) consists of four General Electric Model PG7241(FA) combustion turbines, each nominally rated at 170 MW with a matched 495 million British thermal units per hour (MMBtu/hr) gas-fired HRSG and a 470 MW single steam turbine-electrical generator that serves all four gas turbines/HRSG systems. The total generating capacity of the combined cycle unit is approximately 1150 MW.

This facility also includes one auxiliary boiler, two diesel generators (one unregulated), two oil tanks, a mechanical cooling tower and four electrical heaters. Also included in this permit is an additional unregulated emission unit identified as facility-wide particulate matter and volatile organic compound emissions.

PRIMARY REGULATORY REQUIREMENTS

The existing facility is regulated under:

Title III: The facility is identified as a major source of hazardous air pollutants (HAP).

Title IV: The facility operates units subject to the acid rain provisions of the Clean Air Act.

Title V: The facility is a Title V major source of air pollution in accordance with Chapter 62-213, Florida Administrative Code (F.A.C.).

PSD: The facility is a Prevention of Significant Deterioration (PSD)-major source of air pollution in accordance with Rule 62-212.400, F.A.C.

NSPS: The facility operates units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60.

NESHAP: The facility operates units subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) of 40 CFR 63.

Siting: Units 003, 004, 005, 006, 007 and 009 were originally certified pursuant to the power plant siting provisions of Chapter 62-17, F.A.C.

CAM: The mechanical dust collectors of Units 1 and 2 are excluded from compliance assurance monitoring (CAM) because they are: (a) inherent process equipment contained entirely within the flue ductwork, (b) use a passive method of particulate matter separation from the flue gas stream, (c) recover unburned carbon and ash from the flue gas system, and (d) have no moving parts, no control inputs, nor any controllable parameters.

STATEMENT OF BASIS

CAM is not applicable to the combined cycle Units 3 and 4 since dry low-NO_x combustors when firing natural gas are not considered a pollution control device under 40 CFR 64. When firing distillate fuel oil, the underlying emissions limits compliance is based on continuous emissions monitoring systems (CEMS) and, therefore, the requirements of CAM are not required.

CAM does not apply to the Unit 8 turbines since these emissions units have NO_x CEMS which are used to demonstrate continuous compliance.

CAIR: The facility is subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, F.A.C.

APPLICABLE REGULATIONS

In addition to federal rules above, this facility is subject to the following state rules:

APPLICABLE REGULATIONS	EU ID
Rule 62-4, Florida Administrative Code (F.A.C.) (Permitting Requirements)	
Rule 62-204, F.A.C. (Ambient Air Quality Requirements, PSD Increments, and Federal Regulations Adopted by Reference)	
Rule 62-210, F.A.C. (Permits Required, Public Notice, Reports, Stack Height Policy, Circumvention, Excess Emissions, and Forms)	001, 002, 003, 004, 005, 006,
Rule 62-212, F.A.C. (Preconstruction Review, PSD Review and Best Available Control Technology (BACT))	007, 009, 011, 012, 017, 018, 019
Rule 62-213, F.A.C. (Title V Air Operation Permits for Major Sources of Air Pollution)	
Rule 62-296, F.A.C. (Emission Limiting Standards)	
Rule 62-297, F.A.C. (Test Methods and Procedures, Continuous Monitoring Specifications, and Alternate Sampling Procedures)	
Rule 62-214, F.A.C. (Requirements For Sources Subject To The Federal Acid Rain Program)	001, 002, 003, 004, 005, 006, 011, 012, 017, 018

PROJECT REVIEW

The applicant submitted a request for a Title V Air Operation Permit Revision to incorporate the changes made to two specific conditions in air construction permit Project No. 0850001-020-AC (PSD-FL-327C) for the combined cycle Unit 8. Specifically, the applicant requests: increasing authorized excess emissions caused by a fuel switch from one hour to two hours during any 24-hour period; and authorization for two startup periods during any 24-hour period. The changes are reflected in the Title V air operation permit as follows. ~~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.

E.14. 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.

STATEMENT OF BASIS

[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)]

{Other paragraphs are unchanged.}

E.14.d. 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)]

{Remainder of condition is unchanged.}

CONCLUSION

This project revises Title V air operation permit No. 0850001-018-AV, which was effective on January 1, 2009. This Title V Air Operation Permit Revision is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-4, 62-210, 62-213 and 62-214, F.A.C. In accordance with the terms and conditions of this permit, the above named permittee is hereby authorized to operate the facility as shown on the application and approved drawings, plans, and other documents, on file with the permitting authority.



**TECHNICAL EVALUATION
AND
PRELIMINARY DETERMINATION**

PROJECT

Project No. 0850001-020-AC (PSD-FL-327C)
Florida Power & Light Company, Martin Plant
Facility ID No. 0850001
Combined Cycle Unit 8, Changes to Excess Emissions

COUNTY

Martin County, Florida

APPLICANT

Florida Power & Light Company
P.O. Box 176
Indiantown, Florida 34956-0176

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation – New Source Review Section
2600 Blair Stone Road, MS #5505
Tallahassee, FL 32399-2400

September 8, 2009

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.

Glossary of Common Terms

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

Facility and Location

The Florida Power & Light (FP&L) Company operates an existing electric utility located seven miles North of Indiantown on State Road 710 in Martin County, Florida. The UTM coordinates of this facility are: Zone 17, 542.68 kilometer (km) East and 2992.65 km North. The existing FP&L Martin Plant 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. The electrical generating plant is categorized as Standard Industrial Classification Code No. 4911. This site is in an area that is in attainment (or designated as unclassifiable) for each air pollutant subject to state and federal Ambient Air Quality Standards (AAQS).

Facility Regulatory Categories

Title III: The facility is identified as a major source of hazardous air pollutants (HAP).

Title IV: The facility operates units subject to the acid rain provisions of the Clean Air Act.

Title V: The facility is a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.

PSD: The facility is a Prevention of Significant Deterioration (PSD)-major source of air pollution in accordance with Rule 62-212.400, F.A.C.

NSPS: The facility operates units subject to the NSPS in 40 CFR 60.

NESHAP: The facility operates units subject to the NESHAP in 40 CFR 63.

Siting: Units 003, 004, 005, 006, 007 and 009 were originally certified pursuant to the power plant siting provisions of Chapter 62-17, F.A.C.

CAIR: The facility is subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, F.A.C.

Project Description

The applicant requests the following changes to excess emissions from combined cycle Unit 8 specified in original Permit No. PSD-FL-327 (as modified):

- Increase authorized excess emissions caused by a fuel switch from one hour to two hours during any 24-hour period; and
- Limit to two startup periods during any 24-hour period.

With regard to fuel switching, the applicant requests the change because of certain operational inconsistencies with the equipment during the change-over process. Under current conditions, the operator may have to shut down and restart a unit if there was an upset condition during a fuel switch that caused the fuel switch to last more than an hour instead of being able to fix the problem and complete the exercise. This is more likely if the operator conducted a fuel switch from gas-to-oil, operated on for some duration on oil and then wanted to fuel switch back to natural gas. Although the combustion turbines have rarely conducted fuel switching in the past, the applicant would like to have this flexibility if only to ensure that the oil firing system is properly functioning.

With regard to startups, system load conditions at certain times of the year dictate that one or more units be cycled off at various times of the day. One or more of the shutdown units may be required to restart later the same day to once again meet system demands. Currently, the excess emissions condition allows up to 2 hours in a 24 hour period for each combustion turbine, which is equivalent to 8 hours for the 4-unit combined cycle system. The applicant maintains that it is easier to start up a warm unit than to start up a cold unit, which would also minimize excess emissions. For operational flexibility, the applicant requests changing the excess emissions requirement for startup from two hours in any 24-hour period to eight hours per four-unit site with the additional limit of two startup periods per unit per 24 hours.

2. PSD APPLICABILITY

General PSD Applicability

The Department regulates major stationary sources in accordance with Florida's PSD program pursuant to Rule 62-212.400, F.A.C. A PSD preconstruction review is required in areas currently in attainment with the state and federal Ambient Air Quality Standards or areas designated as "unclassifiable" for a given pollutant. A facility is considered "major" with respect to PSD if it emits or has the potential to emit: 250 tons per year or more of any regulated air pollutant; 100 tons per year or more of any regulated air pollutant and the facility belongs to one of the 28 PSD Major Facility Categories; or, 5 tons per year or more of lead.

New projects at existing PSD-major stationary sources are reviewed for PSD applicability based on net emissions increases from the project. Each PSD pollutant is evaluated for applicability based on emissions thresholds known as the Significant Emission Rates as defined in Rule 62-210.200, F.A.C. Pollutant emissions from the project exceeding these rates are considered "significant". In addition, applicants may choose to conduct a "PSD netting analysis" that includes all emissions increases as well as all emissions decreases for a 5-year period contemporaneous with the project to determine whether or not a PSD significant emissions increase will occur. Although a facility may be "major" for only one PSD pollutant, the project may be "significant" for several PSD pollutants. For each significant PSD pollutant, the applicant must employ the Best Available Control Technology (BACT) to minimize emissions and conduct an air quality analysis that demonstrates emissions from the project will not cause or contribute to adverse ambient impacts.

PSD Applicability for the Project

The project is located in Martin County, which is in an area that is currently in attainment with the state and federal Ambient Air Quality Standards or otherwise designated as unclassifiable. The existing facility is an existing PSD major stationary source. New projects must be reviewed for PSD applicability. The project is not

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

subject to PSD preconstruction review because there are no expected emission increases.

3. NSPS APPLICABILITY

NSPS Applicability

Combined Cycle Unit 8 is subject to applicable NSPS provisions in Subparts Da and GG of 40 CFR 60. This project does not impose any new NSPS provisions.

4. NESHAP APPLICABILITY

Combined cycle Unit 8 is subject to applicable NESHAP provisions in Subpart YYYYY of 40 CFR 60 as an existing emissions unit, but not subject to any specific requirements pursuant to 40 CFR 63.6090(b)(4). This project does not impose any new NESHAP provisions. In addition, EPA stayed the effectiveness of NESHAP Subpart YYYYY on April 7, 2004.

5. DEPARTMENT REVIEW

The Department agrees to modify the original air construction permit as requested. 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) 2 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)]

This project is being incorporated into the Title V air operation permit with a concurrent revision to Permit No. 0850001-018-AV.

6. 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. Bruce Mitchell is the project engineer responsible for reviewing the

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

application and drafting the permit documents. Jeff Koerner is the Air Permitting Supervisor responsible for reviewing and editing the draft permit package. Additional details of this analysis may be obtained by contacting the project engineer at the Department's Bureau of Air Regulation at Mail Station #5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

DRAFT PERMIT REVISION

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 limit to 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

(DRAFT)

Joseph Kahn, Director
Division of Air Resource Management

(Date)

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 _____ (DRAFT) _____ 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_preast@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.

(DRAFT)

(Clerk)

(Date)

SECTION 1. GENERAL INFORMATION (DRAFT)

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 limit to two startup periods during any 24-hour period.

SECTION 2. PERMIT REVISIONS (DRAFT)

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)~~ 2 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)]

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection E. Emissions Units 011, 012, 017, 018

Draft/Proposed Title V Air Operation Permit No. 0850001-021-AV
Revision of Title V Air Operation Permit No. 0850001-018-AV

Only Condition E14 is being revised by this project. ~~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. The final permit will include a full version of the permit and appendices with these se changes.

- E.14. 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.
- a. *Steam Turbine/HRSG System Cold Startup.* For cold startup of the steam turbine system, excess emissions from any gas turbine/HRSG system shall not exceed eight (8) hours in any 24-hour period. Cold startup of the steam turbine system shall be completed within twelve hours. A cold “startup of the steam turbine system” is defined as startup of the 4-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 steam turbine system, each gas turbine/HRSG system is sequentially brought on line at low load to gradually increase the temperature of the 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. *Shutdown.* For shutdown of the steam turbine system, excess emissions from any gas turbine/HRSG system shall not exceed three (3) hours in any 24-hour period.
 - c. *Cold startup of a Gas Turbine/HRSG system.* For cold startup of a gas turbine/HRSG system, excess emissions shall not exceed four (4) hours in any 24-hour period. “Cold startup of a gas turbine/HRSG system” is defined as a startup after the pressure in the high-pressure (HP) steam drum falls below 450 psig for at least a one-hour period.
 - d. *Fuel Switching.* For fuel switching (oil-to-gas or gas to oil), excess emissions shall not exceed ~~one (1)~~ 2 hours in any 24-hour period.

Ammonia injection shall begin as soon as operation of the gas turbine/HRSG system achieves the operating parameters specified by the manufacturer. As authorized by Rule 62-210.700(5), F.A.C., the above conditions allow excess emissions only for specifically defined periods of startup, shutdown, and documented malfunction of the gas turbines. [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)]

Friday, Barbara

To: Bill_Reichel@fpl.com
Cc: ed_prest@fpl.com; Anderson, Lennon; Halpin, Mike; abrams.heather@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Forney.Kathleen@epamail.epa.gov; Gibson, Victoria; Mitchell, Bruce; Holtom, Jonathan; Livingston, Sylvia; Walker, Elizabeth (AIR)
Subject: FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV
Attachments: 0850001020AC021AVFPLMartinCT-HRSG8ABCDSignedWrittenNotice.pdf

Dear Sir/ Madam:

Attached is the official **Written Notice of Intent to Issue Air 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 permit project documents:

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

Click on the following link to access the permit project documents:

http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0850001.021.AV.D_pdf.zip

Attention: Bruce Mitchell

Owner/Company Name: FLORIDA POWER and LIGHT (PMR)
Facility Name: MARTIN POWER PLANT
Project Number: 0850001-020-AC (PSD-FL-327C)/0850001-021-AV
Permit Status: DRAFT AC/CONCURRENT DRAFT-PROPOSED AV
Permit Activity: AIR CONSTRUCTION MODIFICATION/TITLE V REVISION
Facility County: MARTIN

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> .

Permit 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.

Barbara Friday
Bureau of Air Regulation
Division of Air Resource Management (DARM)
(850)921-9524

Friday, Barbara

From: Exchange Administrator
Sent: Wednesday, September 09, 2009 3:22 PM
To: Friday, Barbara
Subject: Delivery Status Notification (Relay)
Attachments: ATT890652.txt; FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT;
0850001-020-AC(PSD-FL-327C)/0850001-021-AV

This is an automatically generated Delivery Status Notification.

Your message has been successfully relayed to the following recipients, but the requested delivery status notifications may not be generated by the destination.

Bill_Reichel@fpl.com
ed_prest@fpl.com

Friday, Barbara

From: Preast, Ed [Ed.Prest@fpl.com]
To: Friday, Barbara
Sent: Friday, September 11, 2009 7:38 AM
Subject: Read: FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV

Your message

To: Ed.Prest@fpl.com
Subject:

was read on 9/11/2009 7:38 AM.

Friday, Barbara

From: System Administrator
To: Anderson, Lennon
Sent: Wednesday, September 09, 2009 3:22 PM
Subject: Delivered:FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV

Your message

To: Bill_Reichel@fpl.com
Cc: ed_prest@fpl.com; Anderson, Lennon; Halpin, Mike;
abrams.heather@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov;
Forney.Kathleen@epamail.epa.gov; Gibson, Victoria; Mitchell, Bruce; Holtom,
Jonathan; Livingston, Sylvia; Walker, Elizabeth (AIR)
Subject: FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV
Sent: 9/9/2009 3:22 PM

was delivered to the following recipient(s):

Anderson, Lennon on 9/9/2009 3:22 PM

Friday, Barbara

From: Anderson, Lennon
To: Friday, Barbara
Sent: Wednesday, September 09, 2009 3:22 PM
Subject: Read: FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV

Your message

To: [Bill Reichel@fpl.com](mailto:Bill_Reichel@fpl.com)
Cc: [ed preast@fpl.com](mailto:ed_prest@fpl.com); Anderson, Lennon; Halpin, Mike;
abrams.heather@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov;
Forney.Kathleen@epamail.epa.gov; Gibson, Victoria; Mitchell, Bruce; Holtom,
Jonathan; Livingston, Sylvia; Walker, Elizabeth (AIR)
Subject: FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV
Sent: 9/9/2009 3:22 PM

was read on 9/9/2009 3:22 PM.

Friday, Barbara

From: Halpin, Mike
To: Friday, Barbara
Sent: Wednesday, September 09, 2009 3:23 PM
Subject: Read: FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV

Your message

To: [Bill Reichel@fpl.com](mailto:Bill.Reichel@fpl.com)
Cc: ed_prest@fpl.com; Anderson, Lennon; Halpin, Mike; abrams.heather@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Forney.Kathleen@epamail.epa.gov; Gibson, Victoria; Mitchell, Bruce; Holtom, Jonathan; Livingston, Sylvia; Walker, Elizabeth (AIR)
Subject: FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV
Sent: 9/9/2009 3:22 PM

was read on 9/9/2009 3:23 PM.

Friday, Barbara

From: Halpin, Mike
Sent: Wednesday, September 09, 2009 10:10 PM
To: Friday, Barbara
Subject: Delivered: FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT;
0850001-020-AC(PSD-FL-327C)/0850001-021-AV
Attachments: ATT906423.txt

Your message was delivered to the recipient.

Friday, Barbara

From: Mail Delivery System [MAILER-DAEMON@mseive02.rtp.epa.gov]
Sent: Wednesday, September 09, 2009 3:22 PM
To: Friday, Barbara
Subject: Successful Mail Delivery Report
Attachments: Delivery report; Message Headers

This is the mail system at host mseive02.rtp.epa.gov.

Your message was successfully delivered to the destination(s) listed below. If the message was delivered to mailbox you will receive no further notifications. Otherwise you may still receive notifications of mail delivery errors from other systems.

The mail system

<Forney.Kathleen@epamail.epa.gov>: delivery via 127.0.0.1[127.0.0.1]:10025: 250 OK, sent 4AA8006C_23429_48674_3 E853A1DC007

<Oquendo.Ana@epamail.epa.gov>: delivery via 127.0.0.1[127.0.0.1]:10025: 250 OK, sent 4AA8006C_23429_48674_3 E853A1DC007

<abrams.heather@epamail.epa.gov>: delivery via 127.0.0.1[127.0.0.1]:10025: 250 OK, sent 4AA8006C_23429_48674_3 E853A1DC007

Friday, Barbara

From: System Administrator
To: Halpin, Mike; Walker, Elizabeth (AIR); Holtom, Jonathan; Livingston, Sylvia
Sent: Wednesday, September 09, 2009 3:22 PM
Subject: Delivered:FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV

Your message

To: [Bill Reichel@fpl.com](mailto:Bill.Reichel@fpl.com)
Cc: ed_prest@fpl.com; Anderson, Lennon; Halpin, Mike; abrams.heather@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Forney.Kathleen@epamail.epa.gov; Gibson, Victoria; Mitchell, Bruce; Holtom, Jonathan; Livingston, Sylvia; Walker, Elizabeth (AIR)
Subject: FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV
Sent: 9/9/2009 3:22 PM

was delivered to the following recipient(s):

Halpin, Mike on 9/9/2009 3:22 PM
Walker, Elizabeth (AIR) on 9/9/2009 3:22 PM
Holtom, Jonathan on 9/9/2009 3:22 PM
Livingston, Sylvia on 9/9/2009 3:22 PM

Friday, Barbara

From: Livingston, Sylvia
To: Friday, Barbara
Sent: Wednesday, September 16, 2009 9:54 AM
Subject: Read: FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV

Your message

To: [Bill Reichel@fpl.com](mailto:Bill.Reichel@fpl.com)
Cc: ed_prest@fpl.com; Anderson, Lennon; Halpin, Mike;
abrams.heather@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov;
Forney.Kathleen@epamail.epa.gov; Gibson, Victoria; Mitchell, Bruce; Holtom,
Jonathan; Livingston, Sylvia; Walker, Elizabeth (AIR)
Subject: FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV
Sent: 9/9/2009 3:22 PM

was read on 9/16/2009 9:54 AM.

Friday, Barbara

From: System Administrator
To: Mitchell, Bruce; Gibson, Victoria
Sent: Wednesday, September 09, 2009 3:22 PM
Subject: Delivered:FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV

Your message

To: [Bill Reichel@fpl.com](mailto:Bill_Reichel@fpl.com)
Cc: [ed preast@fpl.com](mailto:ed_prest@fpl.com); Anderson, Lennon; Halpin, Mike;
abrams.heather@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov;
Forney.Kathleen@epamail.epa.gov; Gibson, Victoria; Mitchell, Bruce; Holtom,
Jonathan; Livingston, Sylvia; Walker, Elizabeth (AIR)
Subject: FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV
Sent: 9/9/2009 3:22 PM

was delivered to the following recipient(s):

Mitchell, Bruce on 9/9/2009 3:22 PM
Gibson, Victoria on 9/9/2009 3:22 PM

Friday, Barbara

From: Mitchell, Bruce
Sent: Wednesday, September 09, 2009 3:24 PM
To: Friday, Barbara
Subject: RE: FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV

9/9/09

RE: Processing/Posting of FP&L Martin Plant Project: 0850001-020-AC/PSD-FL-327C & 0850001-021-AV (Draft/Proposed)

Thanks, Barbara, for processing/posting the project!

Bruce

From: Friday, Barbara
Sent: Wednesday, September 09, 2009 3:22 PM
To: Bill_Reichel@fpl.com
Cc: ed_prest@epa.gov; Anderson, Lennon; Halpin, Mike; abrams.heather@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Forney.Kathleen@epamail.epa.gov; Gibson, Victoria; Mitchell, Bruce; Holtom, Jonathan; Livingston, Sylvia; Walker, Elizabeth (AIR)
Subject: FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV

Dear Sir/ Madam:

Attached is the official **Written Notice of Intent to Issue Air 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 permit project documents:

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

Click on the following link to access the permit project documents:

http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0850001.021.AV.D_pdf.zip

Attention: Bruce Mitchell

Owner/Company Name: FLORIDA POWER and LIGHT (PMR)
Facility Name: MARTIN POWER PLANT
Project Number: 0850001-020-AC (PSD-FL-327C)/0850001-021-AV
Permit Status: DRAFT AC/CONCURRENT DRAFT-PROPOSED AV
Permit Activity: AIR CONSTRUCTION MODIFICATION/TITLE V REVISION
Facility County: MARTIN

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> .

Permit 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.

Barbara Friday
Bureau of Air Regulation
Division of Air Resource Management (DARM)
(850)921-9524

Friday, Barbara

From: Gibson, Victoria
To: Friday, Barbara
Sent: Wednesday, September 09, 2009 3:37 PM
Subject: Read: FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV

Your message

To: [Bill Reichel@fpl.com](mailto:Bill.Reichel@fpl.com)
Cc: [ed preast@fpl.com](mailto:ed_prest@fpl.com); Anderson, Lennon; Halpin, Mike;
abrams.heather@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov;
Forney.Kathleen@epamail.epa.gov; Gibson, Victoria; Mitchell, Bruce; Holtom,
Jonathan; Livingston, Sylvia; Walker, Elizabeth (AIR)
Subject: FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV
Sent: 9/9/2009 3:22 PM

was read on 9/9/2009 3:37 PM.

Friday, Barbara

From: System Administrator
To: Walker, Elizabeth (AIR); Holtom, Jonathan
Sent: Wednesday, September 09, 2009 3:22 PM
Subject: Delivered:New Posting #0850001

Your message

To: Ana Oquendo; Kathleen Forney; Walker, Elizabeth (AIR)
Cc: Mitchell, Bruce; Holtom, Jonathan
Subject: New Posting #0850001
Sent: 9/9/2009 3:22 PM

was delivered to the following recipient(s):

Walker, Elizabeth (AIR) on 9/9/2009 3:22 PM
Holtom, Jonathan on 9/9/2009 3:22 PM

Friday, Barbara

From: Holtom, Jonathan
To: Friday, Barbara
Sent: Wednesday, September 09, 2009 4:28 PM
Subject: Read: FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-327C)/0850001-021-AV

Your message

To: [Bill Reichel@fpl.com](mailto:Bill.Reichel@fpl.com)
Cc: ed_prest@fpl.com; Anderson, Lennon; Halpin, Mike;
abrams.heather@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov;
Forney.Kathleen@epamail.epa.gov; Gibson, Victoria; Mitchell, Bruce; Holtom,
Jonathan; Livingston, Sylvia; Walker, Elizabeth (AIR)
Subject: FLORIDA POWER & LIGHT COMPANY - MARTIN POWER PLANT; 0850001-020-AC(PSD-FL-
327C)/0850001-021-AV
Sent: 9/9/2009 3:22 PM

was read on 9/9/2009 4:28 PM.