

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE OF FINAL PERMIT

In the Matter of an
Application for Permit by:


Ms. Carine Bullock, Production Manager
Florida Power and Light Company, Martin Power Plant
P.O. Box 176
Indiantown, FL 34956-0176

Project No. 0850001-011-AC
Air Permit No. PSD-FL-286A
Simple Cycle Peaking Units 8A/8B
Revised Condition, Excess Emissions
Martin County, Florida

Enclosed is Final Air Permit No. PSD-FL-286A, which modifies Condition No. 18 related to excess emissions for simple cycle Units 8A/8B at the Martin Power Plant. As noted in the Final Determination (attached), only minor changes were made to correct typographical errors. This permit is issued pursuant to Chapter 403, Florida Statutes.

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 thirty (30) days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.


for Trina Vielhauer, Chief
Bureau of Air Regulation

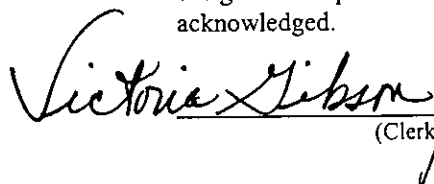
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the Final Permit) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 3/20/03 to the persons listed:

Ms. Carine Bullock, FPL *
Mr. John Hampp, FPL
Mr. Edward Preast, FPL
Mr. Tom Tittle, SED
Mr. Gregg Worley, EPA Region 4
Mr. John Bunyak, NPS

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.


Victoria Gibson / March 20, 2003
(Clerk) (Date)

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Carine Bullock
 Production Manager
 Florida Power & Light Company, Martin Power Plant
 PO Box 176
 Indiantown, FL 34956-0176

COMPLETE THIS SECTION ON DELIVERY

A. Signature

x Amy Mauck Agent
 Addressee

B. Received by (Printed Name)

Amy Mauck

C. Date of Delivery

3-25

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

7001 0320 0001 3692 6808

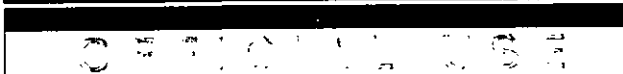
PS Form 3811, August 2001

Domestic Return Receipt

102595-02-M-1540

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

7001 0320 0001 3692 6808



Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark
 Here

Sent To
 Carine Bullock
 Street, Apt. No.,
 or PO Box 176
 City, State, ZIP+4
 Indiantown, FL 34956-0176

PS Form 3800, January 2001

See Reverse for Instructions

FINAL DETERMINATION

PERMITTEE

Ms. Carine Bullock, Production Manager
Florida Power and Light Company, Martin Power Plant
P.O. Box 176
Indiantown, FL 34956-0176

PERMITTING AUTHORITY

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

PROJECT

Project No. 0850001-011-AC
Air Permit No. PSD-FL-286A

The condition is revised similar to that of Rule 62-210.700, F.A.C., which is the basis for the requirement. The revised condition also includes a 1-hour period for excess emissions due to a switch from oil to gas. Such a fuel switch is typically complete in less than 25 minutes and results in reduced emissions once the unit is firing natural gas.

NOTICE, PUBLICATION, AND ADMINISTRATIVE PROCEDURES

The Department distributed an "Intent to Issue Permit" package on January 24, 2003. The applicant published the "Public Notice of Intent to Issue" in The Stuart News on February 20, 2003. The Department received the proof of publication on February 26, 2003. No requests for administrative hearings were filed.

COMMENTS

No comments on the Draft Permit were received.

CONCLUSION

The final action of the Department is to issue the permit with only minor revisions to correct typographical errors.



Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

PERMITTEE:

Florida Power and Light Company
P.O. Box 176
Indiantown, FL 34956

Authorized Representative:

John M. Lindsay, Plant General Manager

Project No. 0850001-011-AC
Permit No. PSD-FL-286A
FPL Martin Power Plant
Facility ID No. 0850001
SIC No. 4911
Expires: December 1, 2003

PROJECT AND LOCATION

Issued on July 21, 2000, original Permit No. PSD-FL-286 authorized the installation of two simple cycle, 170 MW gas turbines. The units were constructed at the existing FPL Martin Power Plant located in the western part of unincorporated Martin County approximately seven miles north of Indiantown on State Road 710. The UTM coordinates are Zone 17, 543.1 km E, 2992.9 km N and the map coordinates are Latitude 27° 03' 13", Longitude 80° 33' 46". Construction is complete and the units are in operation. On July 9, 2002, the expiration date was extended to provide the necessary time to submit a complete application for a Title V air operation permit. This modification revises Specific Condition No. 18 (excess emissions) in Section III for gas turbine Units 8A and 8B. It also extends the expiration date to provide a valid permit for modification and to allow additional time to complete the application for a concurrent Title V permit revision.

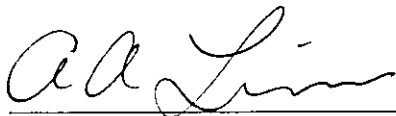
APPLICABLE REQUIREMENTS

This air pollution construction permit is issued under the provisions of Chapter 403, F.S., and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C. All of the original conditions of Permit No. PSD-FL-286 issued on July 21, 2000 are incorporated by reference into this air construction permit modification except for the changes made to this placard page and Specific Condition No. 18 on revised Page 11 (attached). No new construction is authorized. A copy of the original PSD permit is attached as part of this permit.

APPENDICES

The following Appendices are attached as part of this permit.

- Appendix A. Terminology
- Appendix BD. Department's BACT Determinations
- Appendix E. Emissions Standards Summary
- Appendix GC. Construction Permit General Conditions
- Appendix GG. NSPS Subpart GG Requirements for Gas Turbines
- Appendix XS. CEMS Excess Emissions Report


for Howard L. Rhodes, Director
Division of Air Resources Management

3/20/03
(Revision Date)

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

COMBUSTION TURBINES

18. Excess Emissions Allowed: For each combustion turbine, excess NO_x and visible emissions during startup, shutdown, and documented malfunction shall be allowed, providing:
- (a) Operators employ best operational practices to minimize the amount and duration of excess emissions.
 - (b) Operation below 50% of base load shall not exceed 120 minutes during any calendar day.
 - (c) During startup and shutdown, visible emissions excluding water vapor shall not exceed 20% opacity for up to ten, 6-minute observation periods during any calendar day. Data for each observation period shall be exclusive for the ten periods.
 - (d) Excess emissions resulting from startup, shutdown, or documented malfunctions shall not exceed two hours in any 24-hour period. Excess emissions resulting from oil-to-gas fuel switching shall not exceed 1 hour in any 24-hour period.
 - (e) The NO_x CEMS shall monitor and record NO_x emissions during all periods of operation including startup, shutdown, malfunction, and fuel switching. For excess NO_x emissions due to malfunction, the permittee shall notify the Compliance Authority within one (1) working day of: the nature, extent, and duration of the excess emissions; the cause of the excess emissions; and the actions taken to correct the problem. In addition, the Department may request a written summary report of the incident.
 - (f) If the permittee provides at least 5 days advance notice prior to tuning in accordance with the manufacturer's recommendations, up to three 1-hour monitoring averages may be excluded from the continuous NO_x compliance demonstration for each gas turbine due to excess NO_x emissions resulting from tuning.
{Permitting Note: It is expected that no more than two tuning sessions would occur each year.}

{Permitting Note: This condition was revised in accordance with PSD-FL-286A, Project No. 0850001-011-AC.}

[Design; Rule 62-210.700(1) and (5); Rule 62-4.130, F.A.C.]

EMISSIONS PERFORMANCE TESTING

19. Sampling Facilities: The permittee shall design the combustion turbine stack to accommodate adequate testing and sampling locations in order to determine compliance with the applicable emission limits specified by this permit. Permanent stack sampling facilities shall be installed in accordance with Rule 62-297.310(6), F.A.C. [Rules 62-4.070 and 62-204.800, F.A.C.; 40 CFR 60.40a(b)]
20. Test Methods: Compliance tests shall be performed in accordance with the following reference methods as described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C.
- (a) EPA Method 5 or 17 - Determination of Particulate Matter Emissions from Stationary Sources
 - (b) EPA Method 7E - Determination of Nitrogen Oxide Emissions from Stationary Sources
 - (c) EPA Method 9 - Visual Determination of the Opacity of Emissions from Stationary Sources
 - (d) EPA Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources
 - (e) EPA Method 20 - Determination of Oxides of Nitrogen Oxide, Sulfur Dioxide and Diluent Emissions from Stationary Gas Turbines
 - (f) EPA Methods 25 or 25A - Determination of Volatile Organic Concentrations *{Note: EPA Method 18 may be conducted to account for the non-regulated methane fraction of the measured VOC emissions.}*

No other methods may be used for compliance testing unless prior written approval is received from the administrator of the Department's Emissions Monitoring Section in accordance with an alternate sampling procedure pursuant to 62-297.620, F.A.C. [40 CFR 60, Appendix A; Rule 62-204.800, F.A.C.]

21. Initial Tests Required: Initial performance tests to demonstrate compliance with each emission standard for normal gas firing, gas firing with power augmentation, gas firing with high temperature peaking, and backup distillate oil firing shall be conducted within 60 days after achieving the maximum production rate,

Note: A full copy of the original Permit No. PSD-FL-286 was provided to each of the parties listed in the Final Notice. Additional copies may be requested form the Department by calling 850/488-0114 or writing to:

Mailing Address

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

Physical Address

New Source Review Section
Bureau of Air Regulation
Florida Department of Environmental Protection
111 South Magnolia Drive, Suite #4
Tallahassee, FL 32301

Florida Department of
Environmental Protection

Memorandum

TO: ~~Howard Rhodes, Division of Air Resources Management~~ *HR*
THRU: Trina Vielhauer, Bureau of Air Regulation *TV*
Al Linero, New Source Review Section
FROM: Jeff Koerner, New Source Review Section *JK*
DATE: March 20, 2003
SUBJECT: Project No. 0850001-011-AC
Air Permit No. PSD-FL-286A
FPL Martin Power Plant, Simple Cycle Peaking Units 8A and 8B
Revised Specific Condition No. 18, Excess Emissions

The Final Permit for this project is attached for your approval and signature, which revises Condition No. 18 in Permit No. PSD-FL-286A. The condition is revised similar to that of Rule 62-210.700, F.A.C., which is the basis for the requirement. The revised condition also includes a 1-hour period for excess emissions due to a switch from oil to gas. Such a fuel switch is typically complete in less than 25 minutes and results in reduced emissions once the unit is firing natural gas.

I recommend your approval and signature.

Attachments