

DRAFT
9/23/94

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

IN RE: SITE CERTIFICATION,)
MARTIN COAL GASIFICATION/)
COMBINED CYCLE PROJECT,) CERTIFICATION NO. PA89-27B
FLORIDA POWER & LIGHT COMPANY)

FINAL ORDER MODIFYING CONDITIONS OF CERTIFICATION

On February 20, 1991, the Governor and Cabinet, acting as the Siting Board, issued a final order approving certification of Florida Power & Light Company's (FPL) Martin Coal Gasification/ Combined Cycle Facility (Martin CG/CC). That certification order approved the construction and operation of a natural gas/oil fired combined cycle facility and associated facilities to be located in Martin County, Florida.

On July 26, 1994, FPL filed a request to modify the conditions of certification pursuant to section 403.516(1)(b), F.S. FPL requested temporary relief from short-term emission limits to allow testing and evaluation of engineering design modifications to the dry low NOx combustors in the combustion turbines, and a revision to the method for demonstrating compliance with mercury emission limits.

Copies of FPL's request were distributed to all parties to the certification proceeding and made available for public review. On September 2, 1994, the Department published a Notice of Intent to Issue the Proposed Modification in the Florida

Administrative Weekly. Copies of the intent to issue were sent to all parties to the original proceeding. As of August 29, 1994, all of the parties to the original proceeding had received copies of the intent to issue. The notices specified that a hearing would be held if a party to the original certification hearing objects within 45 days from receipt of the proposed modification or if a person whose substantial interests will be affected by the proposed modification objects in writing within 30 days after issuance of the public notice. Written objections to the proposed modifications were not received by the Department.

Accordingly, in the absence of any dispute, IT IS ORDERED THAT:

The proposed modifications to the Conditions of Certification relating to nitrogen oxide emissions and testing of Low-Nox combustors for the Martin CG/CC Project requested by FPL are hereby approved based on the absence of any written objections. The Department does not feel that the change of mercury emission test procedures is necessary at this time since no gasifiers have been constructed, but may be approved upon submission of additional information pursuant to Florida Administrative Code Rule 17-297.620, and Condition II.A.10. Pursuant to section 403.516(1)(b), F.S., the Department hereby modifies the conditions of certification for the Martin CG/CC

Project as follows:

II.A. Emission Limitations for Martin CG/CC Project

4. The maximum allowable emissions from each CT in accordance with the BACT determination, shall not exceed the following, at 40° F (except during periods of startup and shutdown and except as provided in Condition II.A.22.):

22. FPL may alter the DIM II combustors for the four CTs subject to these conditions, operate the CT receiving the first altered DIM II combustor for a maximum period of 60 days for adjustment; and, operate each of the other three CTs for a maximum period of 30 days, after installation of the altered DIM II combustors, for adjustment provided the following conditions are met:

a. The Department's Southeast District air program administrator shall be notified in writing a minimum of 10 days in advance of initially placing any altered DIM II combustor into service.

b. To allow time for evaluation and testing of alterations to the dry low NOx combustor (DIM) design, the emission limitations in Specific Condition 4 of the referenced permit shall not apply during a sixty (60) day period following installation of the final DIM design configuration in the initial CT and shall not apply during a thirty (30) day period per CT

following installation of the final DIM design in each of the remaining - three CTs. During the evaluation and testing of the altered combustors, the maximum nitrogen oxides (NOx) emissions shall comply with the emission limit specified by the new source performance standards for CT, 40 CFR 60, Subpart GG. The annual allowable emissions (TPY) of NOx for each CT in permit PSD-FL-146 and these conditions shall not be exceeded.

c. Except during CT performance testing for extreme conditions, carbon monoxide (CO) emissions shall not exceed 100 ppmvd. The maximum CO emissions during a 12 hour test period to evaluate CT performance during extreme conditions shall not exceed 500 ppmvd, 30 minute average. The annual allowable emissions (TPY) of CO for each CT in permit PSD-FL-146 and these conditions shall not be exceeded.

d. The volatile organic compound (VOC) emissions shall not exceed 20 ppmvd except during CT performance testing for extreme conditions. During the 12 hour test period to evaluate CT performance during extreme conditions, VOC emissions shall not exceed 100 ppmvd. The annual allowable emissions (TPY) of VOC from each CT in permit PSD-FL-146 and these conditions shall not be exceeded. The VOC emissions shall be evaluated during the testing periods by measuring total unburned hydrocarbons (UHC). FPL shall determine the VOC component of UHC emissions at several different UHC levels during the testing of the first combustion

turbine to have the new DLNII combustors installed. The ratio of VOC/UHC concentration shall be measured, as a minimum, at the low, medium, and high UHO concentration observed during the CT performance tests. The VOC component of the UHC emissions shall be attributed against the annual 57 ton VOC emission limit for the facility. The UHC levels shall not exceed 40 ppmvd during the test period. However, during the 12-hour non-continuous CT performance testing for extreme conditions, UHC emissions shall not exceed 500 ppmvd.

e. After the adjustment period, each CT must be in compliance with all limitations in the condition II.A.4.

f. Within 45 days after the completion of the project, the permittee shall furnish the Department with a report summarizing the variation in parameters and emissions of NOx, VOC, and CO from the modified DIM II on all of the CTs and any operation problems with the CT units remaining to be resolved.

Any party to this Order has the right to seek judicial review of the Order pursuant to section 120.68, Florida Statutes, by the filing of Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department of Environmental Protection in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; 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 of Appeal must be filed within 30 days from the date that the Final Order is filed with the Department of Environmental Regulation.

DONE AND ENTERED this _____ day of _____, 1994 in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

VIRGINIA B. WETHERELL
Secretary

Marjory Stoneman Douglas Bldg.
3900 Commonwealth Boulevard
Tallahassee, FL 32399-3000
(904) 488-4805

Telephone:

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a copy of the foregoing was sent by U.S.

Mail to the following this _____ day of September, 1994.

Douglas S. Roberts
Hopping Boyd Green & Sams
P.O. Box 6526
Tallahassee, FL 32314

James Antista ,General Counsel
Florida Game and Fresh Water Fish Commission
Bryant Bldg.
Tallahassee, FL 32399-1600

Roger Saberson
Treasure Coast Regional Planning Council
110 E. Atlantic Avenue
Delray Beach, FL 33444

Gary Simmons
Troup-Indiantown Drainage District
Post Office Box 128
Indiantown, FL 34956-0128

Karen Brodeen, Senior Attorney
Department of Community Affairs
2740 Centerview Drive
Tallahassee, FL 32399-2100

William H. Roberts
Assistant General Counsel
Department of Transportation
Haydon Burns Building
605 Suwannee Street
Tallahassee, FL 32399

Sara Nall
South Florida Water Management District
P.O. Box 24680
3301 Gun Club Road
West Palm Beach, FL 33416-4680

Fred Van Vonno
Deputy County Attorney
Martin County
2401 S.E. Monterey Road
Stuart, FL 34996

Michael Palecki
Division of Legal Services
Florida Public Service Commission
101 East Gaines Street
Fletcher Building, Room 212
Tallahassee, FL 32399-0850

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Richard T. Donelan
Assistant General Counsel

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400
(904) 921-9636

Telephone:



September 15, 1994

RECEIVED

SEP 20 1994

Bureau of
Air Regulation

Mr. Clair Fancy, Chief
Bureau of Air Regulation
Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399

**Re: Florida Power & Light Company
Martin CG/CC Project
Request for Modification of PSD Permit (PSD-FL-146)**

Dear Mr. Fancy:

Pursuant to a telephone conversation on September 12, 1994 with Bruce Mitchell and Willard Hanks of your office, FPL offers the following comments to the draft PSD permit amendment which the Department issued to Wayne Ondler of FPL on August 12, 1994:

In reference to Specific Condition #3, FPL requests that total Unburned Hydrocarbons (UHC) be measured as a proxy for Volatile Organic Carbon (VOC) emissions, because FPL and GE do not have equipment or methods which will allow for monitoring of VOC emissions on a continuous basis during the test period. As a substitute, total unburned hydrocarbons (UHC's), which contain VOC's as a component, can be measured in order to provide the emissions data which the Department has requested. Since the precise ratio of VOC's to UHC's is unknown, in order to address the Department's concerns, FPL proposes to conduct both VOC and UHC testing at several different UHC levels during the firing of the first combustion turbine to have the new DLNII combustor installed, in order to establish that ratio, which will then be used to track the VOC emissions against the annual 57 ton-per-year permit limit. Please note that while FPL does not expect prolonged occurrences of elevated VOC emission levels, the additional VOC increment is requested to address "spikes" which could occur at times during the testing.

FPL requests a 30-minute average UHC emission limit of 40 ppmvd during the majority of the test period and 500 ppmvd for up to 12 non-continuous hours of extreme-condition testing during the test period. FPL has projected that even with the requested short-term emission limit increase, the Martin units can still comply with the 57 ton annual VOC limit given in the PSD permit (PSD-FL-146), and therefore proposes the following language for Specific Condition #3:

The volatile organic compound (VOC) emissions shall be evaluated during the testing periods defined above by measuring total unburned hydrocarbons (UHC). FPL shall determine the VOC component of UHC emissions at several different UHC levels during the testing of the first combustion turbine to have the new DLNII combustors installed. The VOC component of the UHC emissions shall be attributed against the annual 57 ton VOC emission limit for the facility. The UHC levels shall not exceed a 30-minute average of 40ppmvd during the test period. However, during

the 12-hour non-continuous CT performance testing for extreme conditions,
UHC emissions shall not exceed 500ppmvd.

I would like to thank you and your staff for your assistance with this matter. If you have any questions, please do not hesitate to contact me at (407) 625-7661.

Very Truly Yours,



Richard Piper
Environmental Specialist
Florida Power & Light Company

cc: Bruce Mitchell FDEP
 Buck Owen FDEP
 Willard Hanks FDEP



FLORIDA POWER & LIGHT COMPANY
 GOLDEN BEAR
 11770 U.S. HIGHWAY ONE
 P. O. BOX 088801
 NORTH PALM BEACH, FLORIDA 33408-8801

DATE: 9-15 19 94

SEND TO:

NAME: WILLARD HANKS

COMPANY FDEP - DARM

FACSIMILE PHONE NUMBER: 904 928 6979

PHONE NUMBER/EXTENSION: _____

FROM: RICH PIPER
 ENVIRONMENTAL AFFAIRS DEPARTMENT (JEN/GB)

PHONE NUMBER (407) 625- 7661

TOTAL NUMBER OF PAGES (INCLUDING COVER PAGE): 3

SPECIAL INSTRUCTIONS:

I have incorporated changes to ~~the~~ reflect your concerns.
Please call with questions

JEN/GB FACSIMILE PHONE NO: (407) 625-7665

FACSIMILE OPERATOR/TELEPHONE NO: _____ / (407) 625 _____

HOPPING BOYD GREEN & SAMS.

ATTORNEYS AND COUNSELORS

123 SOUTH CALHOUN STREET
POST OFFICE BOX 6526

TALLAHASSEE, FLORIDA 32314

(904) 222-7500

FAX (904) 224-8551

FAX (904) 425-3415

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KAREN M. PETERSON
MICHAEL P. PETROVICH
DOUGLAS S. ROBERTS
R. SCOTT RUTH
JULIE R. STEINMEYER

OF COUNSEL
W. ROBERT FOXES

RECEIVED

SEP 14 1994

Bureau of
Air Regulation

MEMORANDUM

TO: Willard Hanks, FDEP Bureau of Air Regulation

FROM: Doug Roberts *DR*

RE: Proof of Publication of Notice of Proposed Amendment,
FPL Martin Project, PSD Permit, PSD-FL-146

DATE: September 12, 1994

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Attached is a copy of the proof of publication for the notice of the proposed amendment of the PSD permit for the above referenced project. This notice was published once on August 20, 1994 in the Stuart News. Should you have any questions, please give me a call.

Attachment

cc: Rich Piper, FPL Env. Affairs



The Stuart News and The Port St. Lucie News

(an edition of The Stuart News)

STATE OF FLORIDA
COUNTY OF MARTIN: COUNTY OF ST. LUCIE:

Before the undersigned authority appeared Kathleen N. Pritchard who on oath says that he/she Accounts Receivable Manager of The Stuart News, and The Port St. Lucie News, a daily newspaper Published at Stuart in Martin County, Florida, that the attached copy of advertisement, being a Intent to Issue Permit Amendment

in the matter of DEP NO. PSD-FL-146(A)


in the _____ Court, was Published in The Stuart News and The Port St. Lucie News in the issues of August 20, 1994

Affiant further says that the said The Stuart News and The Port St. Lucie News is a newspaper published at Stuart, in said Martin County, Florida with offices and paid circulation in Martin County, Florida, and St. Lucie County, Florida and that the said newspapers have heretofore been continuously published in said Martin County, Florida and distributed in Martin County, Florida and St. Lucie County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he/she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper. The Stuart News has been entered as second class matter at the post office in Stuart, Martin County, Florida, and Ft. Pierce, St. Lucie County, Florida and has been for a period of one year next preceding the first publication of the attached copy of advertisement.

[Handwritten signature]

Sworn to and subscribed before me

this 23rd day of August

A.D.  **CATHERINE HUDSON**
Notary Public, State of Fla.
My Comm. Exp. April 10, 1996
Comm. No. CC 184498
Notary Public

(Seal)

**STATE OF FLORIDA
DEPARTMENT OF
ENVIRONMENTAL PROTECTION
INTENT TO ISSUE
PERMIT AMENDMENT
DEP NO. PSD-FL-146(A)**

The Department of Environmental Protection gives notice of its intent to amend a prevention of significant deterioration permit; No. PSD-FL-146 (PSD-FL-146A), issued to Florida Power & Light Company, Post Office Box 088801, North Palm Beach, FL 33408-8801. The Department previously issued a PSD permit for the construction and operation of the Martin County Coal Gasification and Combined Cycle project located on SR 710, 5 miles NW of Indiantown, Martin County, Florida. The 880 MW-project consists of 2 combined cycle units with 2 combustion turbines per unit.

The amended PSD permit will allow for evaluation and testing of redesigned fuel combustors for the combustion turbines (CT) by providing temporary relief under the current PSD permit from certain short-term emission limits for nitrogen oxides, carbon monoxide and volatile organic compounds during an initial period of up to 60 days after installation of the final combustor design in the initial CT. Installation of the design would proceed on the

limited period of 30 days relief per CT from the same emission limits for evaluation and testing of those units. The annual emission limits of these air pollutants and other permit limitations are not changed by this modification.

A person whose substantial interests are affected by the Department's permitting decision may petition for an administrative determination (hearing) in accordance with Section 120.57, Florida Statutes (F.S.). The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of publication of this notice. Petitioner shall mail a copy of any petitions to the applicant, Mr. Wayne C. Ondler, Florida Power & Light Company, Post Office Box 088801, North Palm Beach, FL 33408-8801, at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative hearing under Section 120.57, F.S.

The Petition shall contain the following information: (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department's permit file number and the county in which the project is proposed; (b) A statement of how and

notice of the Department's action; (c) a statement of how each petitioner's substantial interests are affected by the Department's action; (d) A statement of the material facts disputed by petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests are affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of the publication of this notice in the Office of General Counsel at the above address of the Department. Failure to file objections within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section

a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer pursuant to Rule 28-5.207, Florida Administrative Code.

The application for PSD permit amendment is available for public inspection during normal business hours, 8:00 AM to 5:00 PM, Monday through Friday, except legal holidays at

Department of
Environmental Protection
Bureau of Air Regulation
111 S. Magnolia Drive,
Suite 4
Tallahassee, FL 32301

Department of
Environmental Protection
Southeast District
1900 S. Congress Avenue
West Palm Beach, FL 33406

Any person may send written comments on the proposed action to Mr. John Brown at the Department of Environmental Protection, Bureau of Air Regulation, Mail Station 5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. All comments received within 14 days of publication of this notice will be considered in the Department's final determination.

P.H.Y

AIR RES



Florida Power & Light Company, P.O. Box 088801, North Palm Beach, FL 33408-8801

RECEIVED

SEP 26 1994

Bureau of Air Regulation

XC: Chain - FWS
Lamy - FWS
pls make necessary changes to records
for

XC: HOLLY L. TAMMY

Howard
9/26

September 12, 1994

Ms. Virginia B. Wetherell, Secretary
State of Florida
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399

Dear Ms. Wetherell:

This correspondence is to certify that Ms. Elsa A. Bishop, Manager of Air Permitting and Programs in the Environmental Affairs Department of Florida Power & Light Company, is authorized to act as an agent and representative for Florida Power & Light Company in DER Air permit actions. Correspondence from DER to FPL, including inspection reports, notices of violation, requests for information, etc., can be addressed to Ms. Bishop at the following address:

Ms. Elsa A. Bishop, Manager
Air Permitting and Programs
Environmental Affairs Department
Florida Power & Light Company
P.O. Box 11770 U.S. Highway One, 4th Floor
North Palm Beach, Florida 33408
(407) 625-7607

Sincerely,

Nancy H. Roen
Director
Environmental Affairs

NHR:jm

- cc: Mr. Ernest Frey - DER/Jacksonville
- Mr. A. Alexander - DER/Orlando
- Dr. Richard Garrity - DER/Tampa
- Mr. Philip Edwards - DER/Ft. Myers
- Ms. Mary E. S. Williams - DER/ West Palm Beach
- Dade County Department of Environmental Resources Management
- Broward County Office of Natural Resources Protection
- Palm Beach County Public Health Unit

DEPARTMENT OF ENVIRONMENTAL PROTECTION

SEP 19 1994

OFFICE OF THE SECRETARY

HOPPING BOYD GREEN & SAMS

ATTORNEYS AND COUNSELORS

123 SOUTH CALHOUN STREET

POST OFFICE BOX 6526

TALLAHASSEE, FLORIDA 32314

(904) 222-7500

FAX (904) 224-8551

FAX (904) 681-2964

August 17, 1994

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R. SCOTT RUTH
JULIE R. STEINMEYER

OF COUNSEL
W. ROBERT FOKES

BY FEDERAL EXPRESS

Isidore Goldman
Department of Environmental Protection
1900 S. Congress Avenue
West Palm Beach, FL 33406

RE: FPL Martin Project
PSD-FL-146A, Amendment

Dear Mr. Goldman:

At the request of Bruce Mitchell of the Department's Bureau of Air Regulation, I am sending you the enclosed copy of the Department's proposed approval of an amendment to the above-referenced PSD permit. This is being sent by Federal Express to expedite the notice of this intended action and the final issuance of this permit amendment and to insure local availability of the proposed action at the time notice is published.

Bruce Mitchell has asked that you call him to confirm receipt of this package. Since FPL will publish notice of this intended action this weekend, I would appreciate your calling Bruce immediately upon receipt.

Should you have any questions concerning this matter, please call either Bruce Mitchell or me.

Sincerely,



Douglas S. Roberts

Encls.

cc: Bruce Mitchell, BAR Tlh

RECEIVED

AUG 18 1994

Bureau of
Air Regulation