

1991

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

IN RE:

Florida Power & Light Company)
Putnam Power Plant)
Modification of Certification)
No. PA 74-01E)
Putnam County, Florida)

FINAL ORDER MODIFYING CONDITIONS
OF CERTIFICATION

On March 13, 1991, Florida Power & Light Company submitted to the Department a request to modify the Conditions of Certification for the Putnam Power Plant concerning emission limitations, New Source Performance Standards, compliance, record keeping, stack heights, monitoring, notification and ground water monitoring.

Modifications to the conditions are needed to incorporate new source performance standards applicable to the heat recovery steam generators as a result of proposed refurbishments and to allow the construction activities which are necessary for those refurbishments to occur. The modification of conditions would allow FPL to reconstruct and operate the heat recovery steam generators in a manner consistent with the conditions set forth below. Certain clarifying modifications and modifications reflecting current Department of Environmental Regulation programs also need to be made.

The requested modification was submitted pursuant to Section 403.516(1)(b) F.S., and Condition 32 of the Conditions of Certification, which delegates authority to modify certain conditions of certification to the Department. On March 13, 1991, a Notice of Proposed Modification of Power Plant Certification was served on all parties. On April 12, 1991, notice of the requested modification was published in the Florida Administrative Weekly. The notice specified that a hearing would be held if requested on or before 45 days from the date of receipt by the Party. No hearing was requested. No person has objected to the proposed modifications.

Accordingly, in the absence of any dispute,

IT IS ORDERED:

The Department hereby modifies the Conditions of Certification for the Putnam Power Plant as follows:

Condition No. 1 is modified to read as follows:

1. A. Auxiliary Boilers:

Fuel consumed shall not contain more than 0.7% sulfur nor shall stack emissions exceed those specified in chapter 17-2.600(6).

B. Combustion Turbines:

(i) Only fuel oil with not more than 0.7 percent sulfur content or natural gas may be fired.

(ii) Visible emissions shall not exceed 20 percent opacity except for one 6-minute period per hour during which opacity shall not exceed 27 percent.

C. Heat Recovery Steam Generators:

(i) Only the following fuels may be fired: (a) natural gas or (b) fuel oil with not more than 0.5 percent sulfur content by weight.

(ii) Emissions shall not exceed the following limitations:

(a) Visible emissions shall not exceed 20 percent (6-minute average), except for one 6-minute period per hour of not more than 27 percent.

(b) Excess opacity resulting from malfunctions is permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess opacity shall be minimized, but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department for longer duration.

(c) Excess opacity resulting from startup or shutdown is permitted, provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized.

(d) Nitrogen oxides emissions shall not exceed 0.2 lb/mmBtu heat input when natural gas or distillate

oil is combusted or 0.4 lb.mmbtu heat input when residual oil is combusted. Compliance is determined on a 30-day rolling average basis. The nitrogen oxides standard applies at all times, including periods of startup, shutdown, or malfunction.

(e) Within 90 days after this modification becomes effective, FPL shall submit to the DER Siting Coordination Office for review and approval a report outlining best operational practices to be implemented at the Putnam Plant to minimize excess opacity emissions as referenced in conditions ii (a) and (b).

(iii) To determine compliance with the emissions limit for sulfur dioxide, receipts from the fuel supplier shall be maintained for each shipment which certify that the oil complies with the specifications for fuel oil numbers 1 and 2, as defined by the American Society of Testing and Materials in ASTM D396-78, Standard Specifications for Fuel Oils. Quarterly reports based on such receipts shall be submitted to the Northeast District Office certifying that only oil containing no more than 0.5 weight percent sulfur or oil that has a sulfur dioxide emission rate equal to or less than 0.5 lb/mmbtu heat input and which meets the ASTM specifications was combusted in the duct burners during the preceding quarter. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter.

(iv) To determine compliance with the opacity limits, Method 9 shall be used as required under 40 CFR § 60.8 (July 1, 1990, Edition). The initial performance test shall be performed within 60 days after achieving the maximum production rate for the HRSGs, but not later than 180 days after initial startup. Annual compliance tests shall be performed at least once during each federal fiscal year (October 1 - September 30). Thirty (30) days prior to the initial compliance test and fifteen (15) days prior to each annual compliance test, notice shall be provided to the Northeast District Office. The results of each test shall be submitted to the Northeast District Office within 45 days of test completion. Other Department approved methods may be used for compliance testing after prior Department approval.

(v) To determine compliance with the nitrogen oxides emissions limit, FPL shall conduct the performance test described in 40 CFR § 60.46b(f) (July 1, 1990 Edition) and required under 40 CFR § 60.8 (July 1, 1990 Edition) Using the nitrogen oxides and oxygen measurement procedures in 40 CFR Part 60 Appendix A, Method 20 (July 1, 1990 Edition). The initial compliance test shall be performed within 60 days after

achieving the maximum production rate for the HRSGs, but not later than 180 days after initial startup. Annual compliance test shall be performed at least once during each federal fiscal year (October 1 - September 30). Thirty (30) days prior to the initial compliance test and fifteen (15) days prior to each annual compliance test, notice shall be provided to the Northeast District Office. The results of each test shall be submitted to the Northeast District Office within 45 days of test completion.

(vi) FPL shall maintain records of opacity and must submit excess emissions reports for any calendar quarter during which there are excess emissions from the HRSGs. If there are no excess emissions during the calendar quarter, FPL shall submit a report stating that no excess emissions occurred during the quarterly reporting period. The quarterly reports shall be submitted to the Department's Northeast District Office.

(vii) FPL shall satisfy any applicable nitrogen oxides emissions records maintenance requirements set forth in 40 CFR § 60.49b(g) (July 1, 1990 Edition).

(viii) All records required under this condition shall be maintained by FPL for a period of two years following the date of such record.

Condition No. 2 is modified to read as follows:

2. Stack Height: Minimum stack heights for the paired combined cycle unit exhaust stacks shall be 71 feet above grade. Stacks with a height of at least 150 feet shall be constructed if monitoring data per Condition 5 indicates ambient air standards have been ~~would-be~~ violated.

Wind Restriction: The permittee will burn fuel oil containing no more than 0.50% sulfur when sustained winds exceed 20 miles per hour for any continuous period of three hours or longer.

Wind Monitoring: The permittee shall measure wind velocity and wind direction at hourly intervals in the plant vicinity, only for those hours during which combustion turbines at either of the combined cycle units of the plant operates on oil with greater than 0.5 percent sulfur content. Wind data for the hours during which oil with greater than 0.5 percent sulfur content was burned each month, or, if applicable, a statement that no oil with greater than 0.5 percent sulfur content was burned during that month, shall be reported to the

Northeast District Director Manager of the Department by the ~~each~~ last day of the month following ~~each~~ the reporting period. Wind velocity and direction measurements required by this paragraph shall be made in accordance with recognized methods and procedures.

FPL and DER shall examine the provisions of this condition and determine necessary revisions by 1/10/92, to conform to any decision made pursuant to Condition No. 5, below.

Condition No. 4 is modified to read as follows:

4. The permittee shall install and operate continuous monitoring devices on one of the paired combined cycle unit exhaust stacks for each unit for the following: Opacity, Nitrogen Oxides. Records of such monitoring shall be available for inspection.

Condition No. 5 is modified to read as follows:

5. The permittee shall install and operate continuously for a 24-hour period every six days, two ambient air, West-Gaeke, monitoring devices for sulfur dioxide and two suspended particulate sampling devices. The location of these ambient air samples shall be determined by consultation with the Chief, Bureau Air Monitoring and Assessment Manager of the Department. The data collected will be reported to the Chief, Bureau Air Monitoring and Assessment Manager quarterly by the 45th day following the end last-day-of-each-month following of the reporting period, utilizing the SAROAD or other mutually acceptable format. FPL and DER shall examine the ambient monitoring program and decide by 1/10/92 to upgrade the program, modify or delete it.

Condition Nos. 7, 9 , and 12 are modified to read as follows:

7. Monitoring shall be conducted at the frequencies listed below on the following waste streams, where applicable: Cooling Tower Blowdown, West EP Pond, North Fuel Oil Tank Farm, and the Physical Chemical Treatment System. Each of these waste streams discharge to the St. Johns River. Cooling Tower Blowdown and the Physical Chemical Treatment System discharge may discharge simultaneously or separately through the same pipe. Monitoring reports shall be submitted quarterly to the Department's Northeast District Director Manager:

9. Noncompliance Notification: If, for any reason, the permittee does not comply with or will be unable to comply with any limitation specified in this certification, the permittee shall provide prompt notification to the Director of the Northeast District Lower-St.-Johns-Subdistrict-Manager of

the Department by telecommunication sent by 3:00 p.m. of the next normal work day following the occurrence of such noncompliance, and shall submit the following information in writing, within ninety-six (96) hours of becoming aware of such conditions:

(a) [No Change]

(b) [No Change]

* * *

12. Bypassing: Any diversion or bypass of facilities necessary to maintain compliance with the terms, and conditions of this certification is prohibited, except (i) where unavoidable to prevent loss of life or severe property damage, or (ii) where excessive storm drainage or run-off would damage any facilities necessary for compliance with the conditions of this certification. The permittee shall promptly notify the Director of the Northeast District Lower-St.-Johns-Subdistrict Manager of the Department of each such diversion or bypass in accordance with the procedure contained in Condition 9 of this certification.

Condition No. 30 is added as follows:

30. The Groundwater Monitoring Plan for the Putnam Power Plant, approved on February 25, 1985, and on file with the Department, is incorporated by reference.

Copies of any subsequent revisions to the Groundwater Monitoring Plan which are approved by the Department's Northeast District Office shall be filed with the Department's Siting Coordination Office and provided to the parties hereto by certified mail, and, in the absence of a request for a hearing thereon within 15 days of receipt of such revision, the revisions shall become part of this certification without the need for further filing or the submission of filing fees.

Condition Nos. 30, 31, and 32 are renumbered as follows:

31. 30- [No Change]

32. 31- [No Change]

33. 32- [No Change]

Any party to this Order has the right to seek judicial review of this Order pursuant to Section 120.68, Florida Statutes by filing a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department in the Office of the General Counsel, 2600 Blair Stone Road, Tallahassee, Florida, 32399-2400; and by filing a

copy of the Notice of Appeal accompanied by the appropriate 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 clerk of the Department.

DONE AND ORDERED this 16 day of July, 1991, in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


CAROL M. BROWNER
Secretary

Twin Tower Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
Telephone: (904) 488-9730

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that copies of the foregoing Final Order Modification of Conditions of Certification were furnished to the following by United States Mail, postage prepaid, this 22nd day of July, 1991:

Steven Pfeiffer, General Counsel
Department of Community Affairs
The Rhyne Building, Room 138
2740 Centerview Drive
Tallahassee, FL 32399-2100

Susan F. Clark, General Counsel
Florida Public Service Commission
Fletcher Building
101 E. Gaines Street
Tallahassee, FL 32399-0850

John Thompson, Chairman
Putnam County Board of
County Commissioners
Post Office Box 758
Palatka, FL 32178

William H. Green
Angela R. Morrison
Hopping, Boyd Green
and Sams
123 S. Calhoun Street
Post Office Box 6526
Tallahassee, FL 32314



Richard T. Donelan
Assistant General Counsel
State of Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400