

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

IN RE: FLORIDA POWER CORPORATION)	
POWER PLANT CERTIFICATION)	
MODIFICATION REQUEST)	OGC NO. 95-2526
NO. PA 77-09C)	
CITRUS COUNTY, FLORIDA)	
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FINAL ORDER MODIFYING CONDITIONS OF CERTIFICATION

The Department of Environmental Protection, after notice and opportunity for hearing, modifies the Conditions of Certification for the Florida Power Corporation (FPC) power plant near Crystal River pursuant to the Florida Electrical Power Plant Siting Act Section 403.516(l), Florida Statutes, (F.S.) and General Condition 12, Modification of Conditions, which delegates authority to modify conditions to the Department.

In September 1995, a request for modification was filed to allow termination of the salt drift study, a change in sulfur oxide stack testing, use of natural gas at Unit 4, and a change in discharge temperature. Upon review of all submitted material, Department recommends that the request be approved.

Copies of the Department's proposed action were distributed to all parties to the certification proceeding and made available for public review. On October 13, 1995, a Notice of Proposed Modification of Power Plant Certification was published in the Florida Administrative Weekly. As of October 13, 1995, all of the parties to the original Proceeding had received copies, sent by certified mail, of the intent to modify. The notice specified that a hearing would be held if a party to the original certification hearing objects within 45 days from receipt of the proposed notice of 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. No timely objection to the proposed modifications was received by the Department.

Accordingly, in the absence of any timely objection,

IT IS ORDERED:

The proposed changes to the conditions of certification for the FPC power plant are **APPROVED**. The Department hereby approves the modification, and pursuant to Section 403.516 (1) (6), F. S., the Department hereby **MODIFIES** the conditions of certification for the FPC facility as follows:

I. Air

The construction and operation of Units No. 4 and 5 at the Crystal River steam electric power plant site shall be in accordance with the applicable provisions of Chapters 62-210, 62-214, 62-256, 62-296, and 62-702, 17-2, 17-5, and 17-7, Florida Administrative Code. In addition to the foregoing, the permittee shall comply with the following specific conditions of certification:

B.7. ~~Salt drift deposition, accumulation, vegetative effects and effects on equipment shall be monitored and reported to the department in a manner approved by the department prior to the operation of the first cooling tower.~~

C.5. Stack Tests for particulates and SO₂ shall be performed annually in accordance with Florida Administrative Code Rule 62-297, and 40 CFR Part 60 Appendix A. and F Conditions C-2, 3, and 4 above.

H. Natural Gas

Natural Gas may be used as a startup and low-load flame stabilization fuel in Unit 4 and Unit 5.

II A. 3. Thermal Mixing Zone

The zone of thermal mixing for cooling tower blowdown shall not extend beyond the western end of the north bank of the existing discharge canal. During discharge, the blowdown from the cooling towers for Units No. 4 & 5 shall be withdrawn at the point of lowest temperature of the recirculating cooling water prior to the addition of makeup water. The temperature at the point of discharge into the discharge canal and into the Gulf of Mexico shall comply with the temperature limitations specified in NPDES Permits No. FL0036366 and FL0000159 respectively. ~~The temperature at the point of discharge into the discharge canal shall not be greater than 96° F, maximum two (2) hour average. The temperature at the end of the discharge canal shall not exceed the temperature limitations of Paragraph 17-3.05(3)(D) when only units 4 & 5 are operating and one or more of the recirculating water pumps from the existing~~

units are operating.

II.A.6. Cooling Tower Blowdown

The cooling tower blowdown shall contain no detectable amounts of materials added for corrosion inhibition, unless prior approval for use of such material has been granted by the department upon demonstration that the discharge is not toxic to aquatic life, does not contain priority pollutants and will not result in pollutant concentrations in excess of water quality standards including but not limited to zinc and chromium.

NOTICE OF RIGHTS

Any party to this Order has a right to seek judicial review of this Order pursuant to Section 120.68, Florida Statutes, by the Filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department in the Office of General Counsel, 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 of Appeal must be filed within 30 days from the date this Order is filed with the clerk of the Department.

DONE AND ORDERED this 5th day of July, 1996, in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to S120.52
Florida Statutes, with the designated
Department Clerk, receipt of which
is hereby acknowledged.

Rebecca A. [Signature]
Clerk

6/10/96
Date

for [Signature]
VIRGINIA B. WETHERELL, SECRETARY
Secretary
Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, FL 32399-3000
(904) 488-4805

CERTIFICATE OF SERVICE

I CERTIFY that a true copy of the foregoing was mailed to:
on this 15th day of July 1996.

Department of Community
Affairs
2740 Centerview Drive
Tallahassee, FL 32399-1600

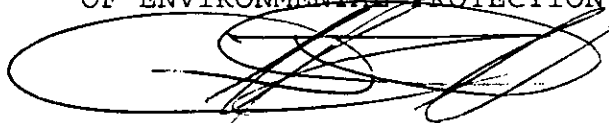
Bob Elias, Esquire
Florida Public Service
Commission
2540 Shumard Oak Blvd.
Tallahassee, FL 32399-0850

W. Jeffery Pardue
Florida Power Corporation H2G
P.O. Box 14042
St. Petersburg, FL 33733

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Southwest Florida Water
Management District
2379 Broad Street
Brooksville, FL 34609

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



CHARLES T. "CHIP" COLLETTE
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Tallahassee, FL 32399-3000
(904) 488-9730

October 16, 1995

Mr. W. Jeffrey Pardue, Director
Environmental Services Department H2G
Florida Power Corporation
P. O. Box 14042
St. Petersburg, FL 33733

Re: Crystal River Salt Drift Study
PA 77-09, PSD-FL-007

Dear Mr. Pardue:

The Department has reviewed the changes in conditions related to air requested in your letter of September 22, 1995 and has the following comments:

- o Please review the conditions related to the Salt Drift Study in the EPA-issued PSD permit (as amended over the years) applicable to Units 4 and 5 and recommend changes so that both the PSD permit and the Site Certification can subsequently be amended.
- o Indicate any changes in the same PSD permit related to the type of fuel(s) used in Units 4 and 5 so that natural gas may be cited as an allowable fuel.
- o Indicate any changes in the PSD permit related to the proposed changes in compliance demonstrations for sulfur dioxide at Units 4 and 5.
- o Does FPC propose to demonstrate compliance with the 2-hour SO₂ emission limit using CEMS on a continuous basis or to select a series of specific 2-hour periods during the year to demonstrate compliance?
- o If FPC wants to switch to continuous compliance, it will be necessary to submit a request for an Alternative Sampling Procedure per F.A.C. 62-297.620 to Mike Harley, P.E. Administrator, Emissions Monitoring Section, 2600 Blair Stone Road, Tallahassee, FL 32399.
- o Because there is a requirement to conduct annual Relative Accuracy Test Audits (RATA) using Method 6C for the CEMS under Title IV, it may be possible to use the results to satisfy the annual stack compliance tests requirement. Please advise if that is what is preferred.
- o If the annual compliance test requirement is to be removed, please specify the precise manner in which compliance will be determined including types and frequency of tests and reports. Propose language for both the Site Certification and PSD permit.

We note that in the original PSD permit (Introduction and Final Determination) EPA indicates that "a 99.6% efficient ESP and 0.49%

sulfur coal are to be used (both are acceptable)." In Section 8, "Stack Parameters," it is stated that approval is based on the stack parameters submitted by FPC on November 30, 1977. These also indicated 0.49 percent sulfur coal. In the Air Quality Analysis, page 12, it is stated that "the emission rates for modeling the proposed facility were emissions which represent best available control technology (see Table 1)." Again Table 1 indicated 0.49 % sulfur coal. Finally the last statement in the Air Quality Analysis is that "construction is approved with conditions as outlined above to ensure compliance with BACT."

Based on the above, it would appear that the sulfur dioxide limit of 1.2 pound per million Btu heat input does not reflect the BACT requirement in the PSD permit. Please provide a reconciliation of the two apparently different limits. It would appear that either a lower limit is also applicable or that some kind of demonstration of the sulfur in the coal is also required.

If you have any questions regarding this matter, please call A. A. Linero, P.E. at (904)488-1344.

Sincerely

Hamilton Oven, P.E.

cc: Winston Smith, EPA
John Bunyak, NPS
Howard Rhodes, DEP
Clair Fancy, DEP
Jim Pennington, DEP
Mike Harley, DEP
Bill Thomas, SWD