RECEIVED

BEFORE THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

OCT 9 1996

BUREAU OF AIR REGULATION

In Re: Jacksonville Electric Authority St. Johns River Power Park Modification of Conditions of)	DER CASE NO.PA 81-13H OGC NO. 85-0353
of Certification)	
Duval County, Florida)	
)	

FINAL ORDER MODIFYING CONDITIONS OF CERTIFICATION

On June 29, 1982, the Governor and Cabinet, sitting as the Siting Board, issued a final order approving certification for the Jacksonville Electric Authority and Florida Power & Light Company (JEA/FPL) St. Johns River Power Park electrical power plant site. That certification order approved the construction and operation of a 1200 MW, coal-fired power plant and associated facilities located in Duval County, Florida.

On August 7, 1995, October 2, 1995, and March 1, 1996, Jacksonville Electric Authority (JEA) filed requests to amend the conditions of certification pursuant to Section 403.516(1)(b), Florida Statutes (F.S.). JEA requested that the conditions be modified to allow the burning of petroleum coke as a supplementary fuel.

Copies of JEA's proposed modifications were made available for public review. On October 27, 1995, a Proposed Modification of Power Plant Certification was published in the Florida Administrative Weekly. As of October 24, 1995, all parties to the original proceeding had received copies 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 modifications or if

a person whose substantial interests will be affected by the proposed modifications objects in writing within 30 days after issuance of the public notice. No timely objection to the proposed modifications has been received by the Department. Accordingly, in the absence of any timely objection, IT IS ORDERED:

The proposed changes to the JEA/FPL St. Johns River Power Park power plant as described in the August 7, 1995, October 5, 1995, and March 1, 1996, requests for modification are APPROVED. Pursuant to Section 403.516(1)(b), F.S., the conditions of certification for the JEA/FPL St. Johns River Power Park, are MODIFIED as follows:

I.A. Emission Limitations

- 1. Based on a maximum heat input of 6,144 million BTU per hour, stack emissions from SJRPP Units 1 & 2 shall not exceed the following when burning coal only:
 - a. d. No change.
- 2. When Unit 1 or Unit 2 are burning a mixture of coal and petroleum coke, the following limitations shall apply:
 - a. When blends of petroleum coke and coal with a sulfur content of up to 2 percent are fired in Units 1 & 2, the SO₂ emissions shall not exceed 0.55 pound per million British

 Thermal Units (lb/MMBtu) and a minimum of 76 percent reduction shall be achieved in the flue gas desulfurization system.
 - b. When co-firing petroleum coke with coals having a sulfur content between 2.00 and 3.63 percent, the emission limitation shall be based on the following formula:

 SO_2 emission limit (lb/MMBtu) = $(0.2 \times C/100) + 4$

Where C = percent of coal fired on a heat input basis.

c. When coals with a sulfur content greater than 3.63 percent are co-fired with petroleum coke, the SO₂ emission limitation shall be established by the following formula:

 SO_2 (lb/MMBtu) = $(0.1653 \times C \times S - 0.4 \times [C + 40]) \times 1/100$

where: C = percent of coal co-fired on a heat input basis

S = weight percent sulfur in the coal

- d. The maximum SO₂ emission rate when firing petroleum coke and coal shall not exceed 0.676 lb/MMBtu.
- e. Compliance with the SO₂ emissions limit shall be based on a 30-day rolling average for those days when petroleum coke is fired. Any use of petroleum coke during a 24-hour period shall be considered one day of the 30-day rolling average. The 30-day rolling average shall be calculated according to the New Source Performance Standards (NSPS) codified in 40 CFR 60 Subpart Da, except as noted above.
- f The petroleum coke blends shall be limited to a maximum of 20 percent petroleum coke by weight. The maximum weight of petroleum coke burned shall not exceed 100,000 lb/hr.

 The maximum sulfur content of the petroleum coke-coal blend shall not exceed 4.00 percent by weight.
- g. The permittee shall maintain and submit to the Department on an annual basis for a period of five years from the date the unit is initially fired with petroleum coke, information demonstrating in accordance with 40 CFR 52.21(b)(21)(v) and 40 CFR 52.21(b)(33) that operational changes did not result in emissions increases of nitrogen oxides and particulate matter.
 - h. The permittee shall maintain and submit to the Department on a semiannual basis for a period of two years from the date the unit is initially co-fired with petroleum coke, and then

on an annual basis (if the first two years of data show no significant increase in carbon monoxide emissions) for an additional three years, information demonstrating that the operational changes did not result in a significant emissions increase of carbon monoxide.

The carbon monoxide emissions shall be based on test results using EPA Method 10.

Additionally quarterly continuous emission monitoring data for carbon monoxide emissions shall be submitted to the Department for a period of two years to show the range of emissions experienced during each quarter.

i. The permittee shall maintain and submit to the Department on a semiannual basis for a period of two years from the date a unit is initially co-fired with petroleum coke, information demonstrating that the operational changes did not result in significant increases of sulfuric acid mist. The sulfuric acid mist emissions shall be based on test results using EPA Method 8. The height of the boiler exhaust stack for SJRPP Unit 1 & 2 shall not be less than 640 feet above grade.

C. Stack Testing

- 1. No change
- 2. Performance tests shall be conducted and data reduced in accordance with methods and procedures outlined in Section 62-297, 17-2.700 F.A.C.
 - 3. 4. No change
- 5. Stack test for particulates, NO_x and SO₂ and visible emissions shall be performed annually in accordance with conditions C. 2, 3, and 4 above.

Any party to this Notice has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules

Appellate Procedure, with the clerk of the Department of Environmental Protection 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 that the Final Order is filed with the Department of Environmental Protection.

DONE AND ENTERED this ______ day of October, 1996 in Tallahassee, Florida.

FILING AND ACKNOWLEDGEMENT FILED, on this dute, pursuant to \$120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Clerk

Date

STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION

VIRGINIA B. WETHERELL

SECRETARY

3900 Commonwealth Boulevard Tallahassee, FL 32399-3000

Certificate of Service

I hereby certify that a true and correct copy was sent to the following parties by United States mail on the _____ day of October, 1996.

Clare Gray, Esquire St. Johns River Water Management District P.O. Box 1429 Palatka, Florida 32178-1429

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

Bob Elias, Esquire Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 Richard Breitmoser
Jacksonville Electric Authority
21 West Church Street
Jacksonville, FL 32202-3139

Gregory K. Radlinski, Esquire Assistant General Counsel 1300 City Hall 220 East Bay Street Jacksonville, FL 32202

W.O. Birchfield, Esquire Martin, Ade, Birchfield and Johnson 3000 Independent Square Jacksonville, FL 32202

Jeffrey Brown

State of Florida Department of Environmental Protection 3900 Commonwealth Blvd. M.S. 35 Tallahassee, FL 32399-3000 (904) 488-9730

Attorney for Department