

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

In Re: Seminole Electric Cooperative, Inc)

Seminole Power Plant)

Modification of Conditions)

of Certification)

Putnam County, Florida)

DER CASE NO.PA 78-10F

**FINAL ORDER MODIFYING
CONDITIONS OF CERTIFICATION**

On October 19, 1979, the Governor and Cabinet, sitting as the Siting Board, issued a final order approving certification for the Seminole Electric Cooperative, Inc. Seminole electrical power plant site. That certification order approved the construction and operation of a 1240 MW, coal-fired power plant and associated facilities located in Putnam County, Florida.

On November 11, 1996, January 7, January 10, and January 29, 1997, Seminole Electric (SECI) filed requests to amend the conditions of certification pursuant to Section 403.516(1)(b), Florida Statutes. SECI requested that the conditions be modified to allow the burning of petroleum coke as a supplementary fuel.

Copies of SECI's proposed modifications were made available for public review. On both November 29, 1996, and February 21, 1997, a Notice of Proposed Modification of Power Plant Certification was published in the Florida Administrative Weekly. As of March 13, 1997, all parties to the original proceeding had received copies of the intent to modify. 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 modifications or a person not otherwise a party objects in writing within 30 days after issuance of the public notice. As of April 21, 1997, no written objection to the proposed modifications had been received by the Department. Accordingly, in the absence of any timely objection,

IT IS ORDERED:

The proposed changes to the SECI Seminole Power Plant as described in the November

11, 1996, January 7, January 10, and January 29, 1997, requests for modification are **APPROVED**.

Pursuant to Section 403.516(1)(b), F.S., the conditions of certification for the Seminole Power Plant, are **MODIFIED** as follows:

I. A. Emission Limitations

2. Stack emissions from Units 1 and 2 shall comply with the following conditions when burning a mixture of coal and petroleum coke:

2.a. SO₂ Sulfur Dioxide Emissions

$$\text{Unit 1: } E_{\text{SO}_2} = [(\%C_{\text{HI}}/100) * (P_S) * (1 - (\%R_0/100))] \\ + [(1 - (\%C_{\text{HI}}/100)) * (0.74 \text{ lb SO}_2/\text{MMBtu})] \quad (\text{Eqn. 1})$$

$$\text{Unit 2: } E_{\text{SO}_2} = [(\%C_{\text{HI}}/100) * (P_S) * (1 - (\%R_0/100))] \\ + [(1 - (\%C_{\text{HI}}/100)) * (0.72 \text{ lb SO}_2/\text{MMBtu})] \quad (\text{Eqn. 2})$$

%C_{HI} = percent of coal on a heat input basis

P_S = potential SO₂ combustion concentration (unwashed coal without emission control systems) as defined by NSPS Subpart Da: lb SO₂/MMBtu, 30 day rolling average

%R₀ = overall percent SO₂ reduction from Equation 19-21 of EPA Reference Method 19. Per NSPS Subpart Da, %R₀ must not be less than 90%, 30-day rolling average

Compliance with the lb per million Btu heat input emission limitations and percent reduction requirement shall be determined on a 30-day rolling average basis.

2.b. Nitrogen oxide emissions:

i. 0.60 lb. per million Btu heat input, and 35 percent of the potential combustion concentration (65 percent reduction). Compliance with the lb. per million Btu heat input emission limitation and percent reduction requirement shall be determined on a 30-day rolling average basis. Compliance with the 0.60 lb. per million Btu heat input emission limitation shall also constitute compliance with the 65 percent reduction requirement; and

ii. 0.50 lb. per million Btu heat input determined on an annual average basis.

when subject to the 40 CFR § 76.8 Early Election Program for Group 1, Phase II Boilers or in any year when petcoke is burned.

2.c. Particulate Matter Emissions

0.03 lb. per million Btu heat input, and 1 percent of the potential combustion concentration (99 percent reduction). Compliance with the 0.03 lb. per million Btu heat input emission limitation shall also constitute compliance with the 99 percent reduction requirement.

2.d. Carbon Monoxide Emissions

The permittee shall maintain and submit to the Department, on an annual basis for a period of five years from the date the units begin firing petroleum coke, test results demonstrating that the operational changes did not result in a significant emissions increase of the pollutant when compared to the past actual coal levels. The carbon monoxide emissions shall be based on test results using EPA Method 10.

2.e. Sulfuric Acid Emissions

The permittee shall maintain and submit to the Department on an annual basis for a period of five years from the date the units begin firing petroleum coke, test results demonstrating that the operational changes did not result in a significant emissions increase of the pollutant when compared to the past actual coal levels. The sulfuric acid mist emissions shall be based on test results using EPA Method 8.

2.f. Fuel Specifications

Fuels fired shall consist of coal and petroleum coke blends containing a maximum of 30 percent petroleum coke by weight. The maximum weight of the petroleum coke burned shall not exceed 186,000 pounds per hour (averaged over 24 hours). The petroleum coke sulfur content shall not exceed 7.0 percent by weight, dry basis.

3. and 4. No Change

5. Handling of Petroleum Coke

All prior conditions of approval that address coal handling shall also apply to the handling of petroleum coke.

6. For the Electric Utility Steam Generating Units When Burning No 2 Fuel Oil
Use of No. 2 Fuel oil is authorized for startups, flame stabilization and required emergency electric reserve capacity. It is also authorized for normal continuous operation when coal quality, process conditions, and/or burner equipment prevent meeting demand with solid fuels only.

D. Reporting

1.- 3. No Change

4. Documentation verifying that the coal and petroleum coke fuel blends combusted in Units 1 and 2 have not exceeded the 30 percent maximum petroleum coke by weight limit specified by Condition of Approval. Section D., Item 6 shall be maintained and submitted to the Department's Northeast District Office with each annual report.

5. The Permittee shall maintain and submit to the Department, on an annual basis for a period of five years from the date the units begin firing petroleum coke, data demonstrating that the operational changes associated with the use of petroleum coke did not result in a significant emission increase pursuant to Rule 62-10.2000(12)(d), F.A.C.

XII. FGD/Sludge Landfill and Coal Pile.

SECI is authorized, pursuant to § 62-701.320(1), F.A.C., to utilize flyash from the Seminole Power Plant and from other coal fired electric generating facilities in the on-site FGD sludge stabilization process.

Adequate geophysical testing of landfill increments 1 and 2 and any subsequent increments shall be conducted in accordance with Chapter 62-701, F.A.C.

The existing and proposed FGD landfill areas shall be monitored and studied ----

XXV. Modification of Conditions

The conditions of this certification may be modified in the following manner:

A. No change.

B. This certification shall be automatically modified to conform to any subsequent

amendments, modifications, or renewals made by DEP under a federally delegated or approved program to any separately issued Prevention of Significant Deterioration (PSD) permit, Title V Air Permit, or National Pollutant Discharge elimination System (NPDES) permit for the certified facility. SECI shall send each party to the original certification proceedings (at the party's last known address as shown in the record of such proceeding) notice of requests submitted by SECI for modifications or renewals of the above listed permits if the request involves a relief mechanism (e.g., mixing zone, variance, etc.) from state standards, a relaxation of conditions included in the permit due to state permitting requirements, or the inclusion of less restrictive air emission limitations in the air permits. DEP shall notify all parties to the certification proceeding of any intent to modify conditions under this section prior to taking final agency action.

C. All other modifications shall be made in accordance with Section 403.516, Florida Statutes.

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 of Appellate Procedure, with the clerk of the Department of Environmental Protection in the Office of General Counsel, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, Mail Station 35, 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 9th day of May, 1997 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 B. 5/12/97
Clerk Date

Kathy B. Lynette
for VIRGINIA B. WETHERELL

SECRETARY
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I HEREBY CERTIFY that a copy of the foregoing was sent by U.S. Mail to the following this 15th day of ~~April~~ ^{May}, 1997.

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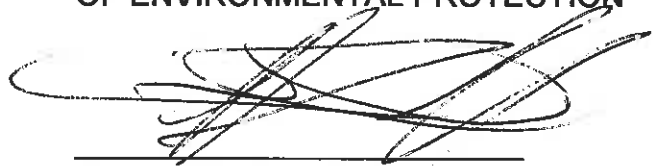
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STATE OF FLORIDA, DEPARTMENT
OF ENVIRONMENTAL PROTECTION

A handwritten signature in black ink, appearing to read 'Charles T. Collette', is written over a horizontal line.

Charles T. (Chip) Collette
Assistant General Counsel

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