

Memorandum

Florida Department of  
Environmental Protection

TO: Buck Oven  
THRU: AL Linero *ad Lin 3/4*  
FROM: Syed Arif *Syed Arif*  
DATE: March 4, 1997  
SUBJECT: Seminole Electric Cooperative, Inc.  
Conditions of Certification  
PA 78-10F

The Bureau of Air Regulation has reviewed the "Final Order modifying Conditions of Certification" for the Seminole Power Plant (DER Case No. PA 78-10F) and submits that Condition I. A. 2.f. should be changed to reflect that the maximum weight of the petroleum coke burned shall not exceed 186,000 pounds per hour (averaged over 24 hours), instead of 125,000 pounds per hour, as presently shown.

The PSD permit will be changed accordingly when the final determination is prepared.

If there are any questions on the above, please give me a call at 488-1344.

SA/t

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	)
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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 Proposed Modification of Power Plant Certification was published in the Florida Administrative Weekly. As of March 5, 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. No written 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 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. SO<sub>2</sub> 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<sub>HI</sub> = percent of coal on a heat input basis

P<sub>S</sub> = potential SO<sub>2</sub> combustion concentration (unwashed coal without emission control systems) as defined by NSPS Subpart Da: lb SO<sub>2</sub>/MMBtu, 30 day rolling average

%R<sub>0</sub> = overall percent SO<sub>2</sub> reduction from Equation 19-21 of EPA Reference Method 19. Per NSPS Subpart Da, %R<sub>0</sub> 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 125, 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 Notice 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, 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 \_\_\_\_\_, 1997 in Tallahassee, Florida.

STATE OF FLORIDA, DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

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VIRGINIA B. WETHERELL

SECRETARY

3900 Commonwealth Boulevard  
Tallahassee, FL 32399-3000

Fold at line over top of envelope to

**SENDER**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:  
 Mr. Opalinski, D of EA  
 Seminole Electric Coop  
 PO Box 272000  
 Tampa, FL 33628-2000

4a. Article Number  
 P 339 251 186

4b. Service Type  
☐ Registered ☐ Insured  
☒ Certified ☐ COD  
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery  
 12 29 96

8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)

6. Signature (Agent)  
 Ernest Williams

1. ☐ Addressee's Address  
 2. ☐ Restricted Delivery  
 Consult postmaster for fee.

also wish to receive the following services (for an extra fee):

Is your RETURN ADDRESS completed on the reverse side?

PS Form 3811, December 1991 U.S. GPO: 1993-352-714

**DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

P 339 251 186

US Postal Service  
**Receipt for Certified Mail**  
 No Insurance Coverage Provided.  
 Do not use for International Mail (See reverse)

Sent to Mr. Opalinski	
Street & Number Seminole Electric	
Post Office, State, & ZIP Code Tampa, FL	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date SEC 11-25-96 Units 142 PSD-FI-018	

PS Form 3800 April 1995