

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

In Re: Seminole Electric Cooperative, Inc)	
Seminole Power Plant) DER CASE NO. PA 78-10F
Modification of Conditions)
of Certification)
Putnam County, Florida)
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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

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

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

%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. [Signature] 5/12/97
Clerk Date

[Signature]
for VIRGINIA B. WETHERELL

SECRETARY
3900 Commonwealth Boulevard
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(904) 488-1554

I HEREBY CERTIFY that a copy of the foregoing was sent by U.S. Mail to the following this 10th
day of ~~April~~ May, 1997.

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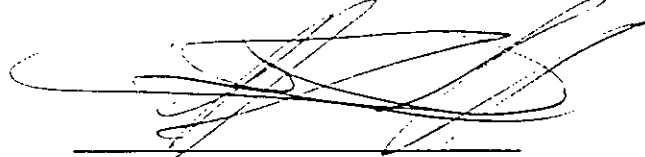
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STATE OF FLORIDA, DEPARTMENT
OF ENVIRONMENTAL PROTECTION

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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(904) 921-9704

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10/10/90

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In Re:)
Seminole Electric Cooperative, Inc.)
Seminole Power Plant)
Power Plant Certification)
Modification Request)
No. PA 78-10)
Putnam County, Florida)

FINAL ORDER MODIFYING CONDITIONS
OF CERTIFICATION

On August 29, 1990, Seminole Electric Cooperative, Inc. submitted a request to modify the Conditions of Certification for the Seminole Power Plant relating to the construction and operation of a rail car maintenance and surface coating facility at the Seminole Power Plant site. The requested modification was submitted pursuant to Section 403.516, F.S., to the Department and parties to the original 1978-1979 certification proceedings.

On November 9, 1990, a Notice of Request for Modification of Power Plant Certification was served on all parties with a provision that a hearing would be held if requested on or before December 24, 1990. No hearing was requested. No party has objected to the proposed modification:

THEREFORE, IT IS ORDERED:

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

Condition XXVI. is added as follows:

XXVI. Rail Car Maintenance Facility

The rail car maintenance and surface coating facility shall be designed, constructed and operated in conformance with chapters 17-2, 17-25, and 17-302, F.A.C. and the following limitations:

- A. Visible Emissions - shall not exceed 20% opacity.
- B. VOC Emissions - shall not exceed 37.7 lbs/hr. or 7.84 T/year.
- C. Particulate Emissions - Unconfined particulate emissions from abrasive blasting shall be controlled as required by Section 17-2.610(3)(c), F.A.C., using the

following precautions:

1. Only the interior of the railcars shall be cleaned.
 2. The cover and the partial enclosure of the shelter will act as a windbreak to minimize the amount of residual particulate that becomes airborne.
- D. Stormwater Runoff - shall be collected in existing runoff ditches and routed to percolation/evaporation areas on site.
- E. Wastewater - There shall be no discharge of wastewater from the maintenance facility site.
- F. sanitary Waste - Shall be disposed of in accordance with the applicable substantive requirements of chapter 10D-6, F.A.C.
- G. Water - The associated drinking water system shall comply with the substantive requirements of chapters 10-D-4, 17-550 and 17-555, F.A.C. consumptive use of groundwater shall be governed by the non-procedural provisions of 40C-2.381, F.A.C. and Section 18.0.1, Part III, "Applicants Handbook consumptive Uses of Water."

NOTICE OF RIGHTS

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 of the Final Order is filed with the clerk of the Department.

DONE AND ORDERED this 26 day of March, 1991, in Tallahassee, Florida

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



CAROL M. BROWNER
SECRETARY

Certificate of Service

I hereby certify that a copy of the petition of Modification of the Seminole Power Plant Site Certification was sent to the following parties by United States mail on March 26, 1991.

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CONDITIONS OF CERTIFICATION

I. Air

The Construction and operation of Units No. 1 and 2 at the Seminole steam electric power plant site shall be in accordance with all applicable provisions of Chapters 17-2, 17-5 and 17-7, Florida Administrative Code. In addition to the foregoing, the permittee shall comply with the following conditions of certification:

A. Emission Limitations

1. Stack emissions from Units 1 and 2 shall not exceed the following when burning coal:
 - a. SO₂ - 1.2 lb. per million BTU heat input, maximum two hour average.
 - b. NO_x - 0.60 lb. per million BTU heat input.
 - c. Particulates - 0.03 lb. per million BTU heat input.
2. The height of the boiler exhaust stack for Units No. 1 & 2 shall not be less than 675 ft. above grade.
3. Particulate emissions from the coal handling facilities:
 - a. The applicant shall not cause to be discharged into the atmosphere from any coal processing or conveying equipment, coal storage system or coal transfer and loading system processing coal, visible emissions which exceed 20 percent opacity. Particulate emissions shall be controlled by use of control devices having a removal efficiency of not less than 99.9%.
 - b. The applicant must submit to the Department within ten (10) working days after it becomes available, copies of technical data pertaining to the selected particulate emissions control for the coal handling facility. These data should include, but not be limited to, guaranteed efficiency and emission rates, and major design parameters such as air/cloth ratio and flow rate. The Department may, upon review of these data, disapprove the use of such device if the Department determines the selected control device to be inadequate to meet the emission limits specified in 3(a) above. Such disapproval shall be issued within 30 days of receipt of the technical data.
4. Particulate emissions from the FGD sludge fixing facility shall be in compliance with Section 17-2.05(2).

B. Air Monitoring Program

1. The permittee shall install and operate continuously monitoring devices for the Units No. 1 & 2 boiler exhausts for sulfur dioxide, nitrogen dioxide and opacity. The monitoring devices shall meet the applicable requirements of Section 17-2.08, IAC. The opacity monitor may be placed in the duct work between the electrostatic precipitator and the FGD scrubber.

2. The permittee shall operate the two ambient monitoring devices for sulfur dioxide as generally shown on Figure 1. in accordance with EPA reference methods in 40 CFR, Part 53 and two ambient monitoring devices for suspended particulates as generally shown on Figure 1. The monitoring devices shall be specifically located at a location approved by the Department. The frequency of operation shall be every six days commencing as specified by the Department.

3. The permittee shall maintain a daily log of the amounts and types of fuels used and copies of fuel analyses containing information on sulfur content, ash content and heating values.

4. The permittee shall provide sampling ports into the stack and shall provide access to the sampling ports, in accordance with DER Publication, Standard Sampling Techniques and Methods of Analysis for the Determination of Air Pollutants from Point Source, July 1975.

5. The ambient monitoring program may be reviewed annually beginning two years after start-up of Unit No. 2 by the Department and the permittee.

6. Prior to operation of the source, the applicant shall submit to the Department a standardized plan or procedure that will allow the applicant to monitor emission control equipment efficiency and enable the applicant to return malfunctioning equipment to proper operation as expeditiously as possible.

C. Stack Testing:

1. Within 60 calendar days after achieving the maximum capacity at which each unit will be operated, but no later than 180 operating days after initial startup, the owner or operator shall conduct performance tests for particulates and SO₂ and furnish the Department a written report of the results of such performance tests.
2. Performance tests shall be conducted and data reduced in accordance with methods and procedures in accordance with DER's Standard Sampling Techniques and Methods of Analysis for Determination on Air Pollutants from Point Sources, July 1975.

3. Performance tests shall be conducted under such conditions as the Department shall specify based on representative performance of the facility. The owner or operator shall make available to the Department such records as may be necessary to determine the conditions of the performance tests.
4. The owner or operator shall provide 30 days prior notice of the performance tests to afford Department the opportunity to have an observer present.
5. Stack tests for particulates and SO₂ shall be performed annually in accordance with conditions C. 2, 3, and 4 above.

D. Reporting

1. For each Unit, stack monitoring, fuel usage and fuel analysis data shall be reported to the Department on a quarterly basis commencing with the start of commercial operation in accordance with 40 CFR, Part 60, Section 60.7., and in accordance with Section 17-2.08, FAC.
2. Ambient air monitoring data shall be reported to the Department quarterly commencing on the date of certification by the last day of the month following the quarterly reporting period utilizing the SAROAD or other format approved by the Department in writing.
3. Beginning one month after certification the applicant shall submit to the Department a quarterly status report briefly outlining progress made on engineering design and purchase of major pieces of equipment (including control equipment). All reports and information required to be submitted under this condition shall be submitted to the Administrator of Power Plant Siting, Department of Environmental Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32301.

II. Water Discharges

Any discharges into any waters of the State during construction and operation of Units No. 1 & 2 shall be in accordance with all applicable provisions of Chapter 17-3, Florida Administrative Code and 40 CFR, 423, Effluent Guidelines and Standards for Steam Electric Power Generating Point Source Category except as provided herein. Also the permittee shall comply with the following conditions of certification:

A. Plant Effluents and Receiving Body of Water

For discharges made from the power plant the following conditions shall apply.

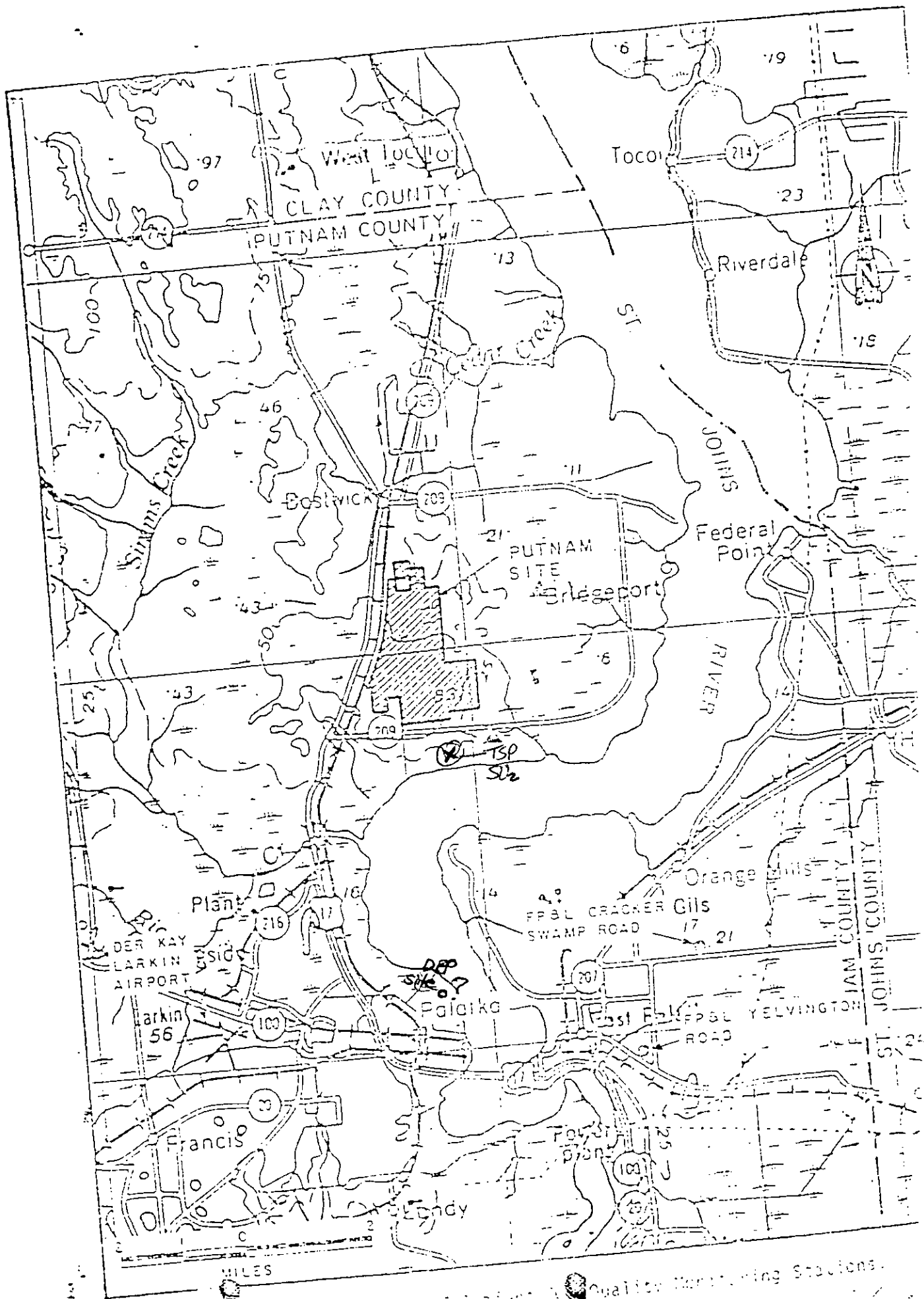


Fig. 1. Location of Putnam Site and Quality Monitoring Stations.