

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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JUL 23 1986

Ans'd.....

In Re:

Florida Power & Light Company  
Palatka (Putnam Plant)  
Modification of Terms and  
Conditions of Certification  
No. PA 74-01  
Putnam County, Florida

OGC NO. 83-0730

FINAL ORDER  
MODIFYING CONDITIONS OF CERTIFICATION

The Florida Department of Environmental Regulation after notice and opportunity for hearing modifies the conditions of certification for the Florida Power and Light Company, Palatka Station (Putnam Plant) pursuant to Section 403.516(1), Florida Statutes, and Section 32 of the Conditions of Certification, which delegated modifications of conditions to the Department.

1. On December 27, 1985, Florida Power and Light Company submitted a petition to the Department requesting modification of the existing Conditions of Certification for the Putnam Plant to allow change in the water monitoring program and sampling requirements and to establish a mixing zone for chemical discharges.

2. On January 28, 1986, a Notice of Proposed Agency Action was served on all parties with a provision that a hearing would be held if requested on or before March 25, 1986. No hearing was requested, therefore the Department adopts the proposed agency action as final.

3. After review of the petition and its exhibits, the Department grants relief to Florida Power and Light by making the following modifications to the Conditions of Certification:

A. Condition 6 is amended to read:

6. With the exception of cooling tower blowdown,  
water effluents shall conform to the limita-  
tions of Chapter 17-3, F.A.C., including but  
not limited to those contained in Paragraph  
below. For cooling tower blowdown,  
in addition to those limitations contained in

Chapter 17-3, F.A.C., and Condition 7 below, the mixing zone is hereby established for the parameters of iron, chlorine, copper, nickel and zinc with the dimensions of 800 meters in length and 90 meters in width, except that the southernmost section of the mixing zone shall be 150 meters in width as shown on Figure 5 of Attachment "A" hereto so as to take into account a particular shoreline configuration.

B. Condition No. 7 is amended to read:

7. Monitoring shall be conducted at the frequencies listed below on the following waste streams, where applicable: Cooling Tower Blowdown, West EP Pond, North Fuel Oil Tank Farm, and the Physical Chemical Treatment System. Each of these waste streams discharge to the St. Johns River. Cooling Tower Blowdown and the Physical Chemical Treatment System discharge may discharge simultaneously or separately through the same pipe. The following parameters Monitoring reports shall be reported submitted quarterly monthly to the department Northeast BRR-SubDistrict Manager:

Effluent-Characteristics

<u>Parameter</u>	<u>Limitations</u>	<u>Monitoring Frequency</u>	<u>Wastestream(s)</u>
a. Flow	To-existing-plant discharge-area. Cooling tower blowdown shall be minimized to the degree allowed by best engineering practice, further-more, the combined-flow-to-the-St. Johns-River-from-the-cooling-tower-and-the-chemical-waste-treatment-system-shall-not exceed-2,200-gpm.	Continuous recorders, or pump logs or calculation	Cooling Tower Blowdown, West EP Pond, North Fuel Oil Tank Farm Area Physical Chemical Treatment System
b. Temperature	Not to exceed 98° F. at the P.O.D. and not to exceed 92° F. or 50° F. above ambient at the boundary of a 3-dimensional zone of mixing described by a cylinder of 50 meters radius running horizontally from the P.O.D. and which extends vertically to the river surface and river bottom.	Continuous (recorder or logs) at any point between the blowdown discharge at the cooling tower and the POD of cooling water into the river.	Cooling Tower Blowdown

<u>Parameter</u>	<u>Limitations</u>	<u>Monitoring Frequency</u>	<u>Wastestream(s)</u>
c. Phosphate to-Blow-down-tank	50 ppm	Weekly.	<u>Physical Chemical Treatment System during periods of discharge from the neutralization basin</u>
d. Dissolved solids	6000 ppm	Daily	<u>Cooling Tower Blowdown, Physical Chemical Treatment System</u>
e. pH	6.0 - 8.5	Daily	<u>Cooling Tower Blowdown, West EP Pond, North Fuel Oil Tank Farm Area, Physical Chemical Treatment System</u>
f. Floating solids and visible foam	None visible	None	<u>Cooling Tower Blowdown, West EP Pond, North Fuel Oil Tank Farm Area, Physical Chemical Treatment System</u>

C. Condition No. 21 is amended to read:

21. No debris shall be discharged to waters of the state from the intake screens with the exception of viable nekton. Additionally, the Permittee shall, beginning no later than July 17, 1978, undertake a study to evaluate methods of returning viable nekton collected on the intake screens to ambient temperature waters and shall submit a report presenting results no later than November 17, 1979.

D. Condition No. 22 is amended to read:

22. Discharge of cooling tower blowdown shall not begin until total residual chlorine concentrations are below 0.14 mg/l. After December 31, 1976 or six months after commencement of boiler operations, whichever event occurs later, free available chlorine shall not exceed an a daily average concentration of 0.2 mg/l and a daily maximum concentration of 0.5 mg/l during a maximum of one, two-hour period a day at the point of discharge. Chlorine concentration monitoring shall be conducted two times per week, during the

period-of-maximum-expected-residuals-at-any point-between-the-exit-from-the-cooling-tower and-the-P.O.D.-of-cooling-water-in-the-river using multiple grab sampling. The results of such a monitoring shall be reported quarterly to the SubDistrict Manager on the same frequency as reported to the U.S. Environmental Protection Agency. Additionally, a study shall-be-instituted-to-evaluate-all-practicable-methods-to-reduce-total-chlorine-(free and-combined)-levels,-including,-but-not necessarily-limited-to-(1)-minimization-of chlorine-addition-commensurate-with-control requirements,-(2)-reduction-of-flow-during chlorination,-and-(3)-discontinuation-of-blow-down-during-chlorination-and-subsequent periods-of-high-concentration.--Results-of this-study,-including-facilities-and/or methods-proposed-to-reduce-total-chlorine residuals-shall-be-submitted-within-twenty-four-months-of-commencement-of-plant-operation.--Subsequently,-chlorination-procedures to-reduce-total-chlorine-residuals-shall-be implemented-to-the-extent-practicable.

Any party to this Order has the right to seek judicial review of the Order pursuant to Section 120.67, 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, 2600 Blair Stone Road, Tallahassee, Florida 32301, 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 15 day of April, 1986, in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to S120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

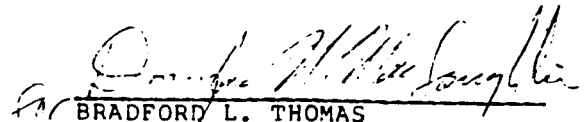
Regan L. Rickman 5-16-86  
Clerk Date

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CERTIFICATE OF SERVICE

I HEREBY CERTIFY that copies of the foregoing FINAL ORDER  
MODIFYING CONDITIONS OF CERTIFICATION were furnished by United  
States Mail to all counsel of record listed on the attached service  
list, on this 16 day of May, 1986.

  
BRADFORD L. THOMAS  
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