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Governor

Department of Environmental Protection

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2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Colleen M. Castille
Secretary

DEP 0 5-0 5 5 1

March 18, 2005

- CERTIFIED MAIL - RETURN RECEIPT REQUESTED -

Mrs. Barbara Linkiewicz
Environmental Licensing Manager
Florida Power & Light Company
700 Universe Blvd.
Juno Beach, FL 33408

**RE: Florida Power & Light Company
Lauderdale Repowering Project
DEP Case Number PA 89-26
OGC Case Number 05 -0119**

ORDER MODIFYING CONDITIONS OF CERTIFICATION

Dear Mrs. Linkiewicz:

The Siting Board authorized the construction and operation of Florida Power & Light (FPL) Company Lauderdale Repowering Project (PA 89-26) on January 10, 1991. The Department has modified the Conditions of Certification by Final Order on 4 other occasions. The Department has issued a DEP NPDES Permit that would constitute a change to the Conditions of Certification, necessitating a modification.

On or before February 4, 2005 all parties to the certification proceeding were provided with notice by certified mail of the Department's intent to modify the Conditions of Certification for this facility, along with a copy of the proposed Order Modifying Conditions of Certification. Additionally, on or before February 4, 2005, notice of the Department's intent to modify the Conditions of Certification for this facility was published on the Department's internet home page at <http://www.dep.state.fl.us/> under the link or button titled "Official Notices." Pursuant to Section 403.516, Florida Statutes ("F.S."), and Rule 62-17.211, Florida Administrative Code ("F.A.C."), all parties to the certification proceeding have 45 days from the issuance of notice by mail to such party's last address of record in which to file a written objection to the modification; that any person who is not already a party to the certification proceeding and whose substantial interests will be affected by the requested modification has 30 days from the date of publication of the public notice in the Florida Administrative Weekly to object in writing; that failure to act within the time frame constitutes a waiver of the right to become a party; and that the Department

will issue an Order Modifying the Conditions of Certification for this facility if no written objections are received by the Department.

No objections to the modification have been received by the Department. The Conditions of Certification for the FPL Lauderdale Repowering Project are hereby modified as follows:

Any reference made to "permittee" shall be changed to "licensee".

Any reference made to "DER" or "Department of Environmental Regulation" shall be changed to "DEP" or "Department of Environmental Protection".

Any reference made to Chapter 17 shall be changed to Chapter 62.

III. SURFACE WATER DISCHARGE

Discharges into surface waters of the state during construction and operation of the project shall be in accordance with applicable provisions of Chapters 17-4, 17-302, 17-650, and 17-660, Chapter 62-302, F.A.C., and any subsequent amendments, unless excepted by variance and NPDES Permit FL0001503 and the following Conditions of Certification:

A. Plant Effluents and Receiving Body of Water

1-2 No Change

3. Thermal Limit

a. The temperature at the POD shall not exceed 99°F (monthly average, reported as a whole number) in the summer months (June, July, August, and September) or 96°F (monthly average, reported as a whole number) during the remaining months of the year.

b. Prior to commencement of commercial operation of the repowered units, Licensee shall modify the cooling pond berms in accordance with the Supplemental Cooling Canal/Pond System Thermal Modeling Document dated September 6, 1990. Once modified, any alterations to the design or configuration of cooling canal/pond berms shall require a modification of this certification pursuant to 403.516, F.S.

c. FPL shall install, maintain and operate continuously recording thermographs at the intake, the condenser outlet and POD to monitor compliance with thermal limits. Simultaneously with its application, in 1995, for renewal of the Lauderdale Power Plant NPDES permit, FPL may request, and DEP may authorize, discontinuance of thermal monitoring at the POD. A demonstration of compliance with the thermal limits of this condition for twelve continuous months shall be necessary for DEP to approve discontinuance of thermal monitoring.

d. Records of thermal monitoring data shall be retained for at least 15 months.

4. Chemical Wastes from LRP. All discharges of low volume wastes (demineralizer regeneration, floor drainage, lab drains, and similar wastes) shall be treated in an adequately sized and constructed treatment facility prior to discharge into the cooling pond. FPL shall demonstrate that the discharge of reject water from the reverse osmosis plant will not cause or contribute to a violation of water quality standards at the POD from the cooling pond.

5. pH - The pH of the combined discharges to the cooling pond from Outfall Serial Number (OSN) 002 shall be such that the pH will fall within the range of 6.0 to 9.0 and any discharge from the pond at OSN 001 to South Fork New River canal shall not exceed 6.0 to 8.5.

6. Polychlorinated Biphenyl Compounds - There shall be no discharge of polychlorinated biphenyl compounds.

7. During the first 18 months of operation of the LRP, the Licensee shall monitor the cooling water at the cooling water intake for the following parameters in the manner prescribed. Upon completion of the 18-month monitoring period, the monitoring frequency may be decreased to once per year upon written notification from DEP to the Licensee.

Parameter	Monitoring Requirements	
	Measurement Frequency	Sample Type
Dissolved Oxygen	1/quarter	grab
Copper	1/quarter	grab
Cyanide	1/quarter	grab
Iron	1/quarter	grab
Mercury	1/quarter	grab
pH	1/quarter	grab
Selenium	1/quarter	grab
Temperature	1/hour	recorder

The results of the monitoring shall be submitted to the DEP Southeast District Office in West Palm Beach within 45 days of collection. The Licensee shall maintain a summary of the results in the form of a yearly average for the life of the project.

8. The Licensee shall monitor any discharge from the cooling pond at Outfall Serial Number 001 in the following manner:

Parameter	Monitoring Requirements
Flow (quantity and duration)	by Calculation during Discharge
Temperature	Continuously
Total Dissolved Solids	1/week during Discharge

9. Chemical Metal Cleaning - Metal cleaning wastes shall be treated prior to discharge to the cooling pond. Such discharges shall be limited and monitored by the Licensee as specified below:

Effluent Characteristic	Discharge Limits	Monitoring Requirements	
	Instantaneous Max	Measurement Frequency	Sample Type
Flow - m3/day (MGD)	---	1/batch	Pump log
Copper, Total	1.0 Mg/l	1/batch	grab
Iron, Total	1.0 Mg/l	1/batch	grab
Batches	Report	1/batch	logs

Chemical metal cleaning wastes shall mean process equipment cleaning including, but not limited to, boiler tube cleaning. Waste treated and discharged via this OSN shall not include any stream for which an effluent guideline has not been established (40 CFR 423) for total copper and total iron at the above levels.

10. ~~Storm Water Runoff~~ During construction and operation discharge from the surface water management system from a storm event less than the once in 10 year, 24 hour storm shall meet the following limits and shall be monitored at all point source discharges through discharge structures, [See IV.B.2.c(2)] (designated as OSN 005) by a grab sample once per discharge, but not more often than once per week:

Effluent Characteristic	Discharge Limit Instantaneous Maximum
Flow (MGD)	Report
TSS (mg/l)	50
pH	6.0-8.5

a. During plant operation, necessary measures shall be used to settle, filter, treat or absorb silt containing or pollutant laden storm water runoff to limit the suspended solids to 50 mg/l or less at OSN 005 during rainfall periods less than the 10 year, 24 hour rainfall.

b. Control measures shall consist at the minimum of filters, sediment traps, barriers, berms or vegetative planting. Exposed or disturbed soil shall be protected as soon as possible to minimize silt, and sediment laden runoff. The pH shall be kept within the range of 6.0 to 8.5 in the discharge to the cooling pond or the Dania Cut-off Canal.

c. Special consideration must be given to the control of sediment laden runoff resulting from storm events during the construction phase. Best management practices erosion controls should be installed early during the construction period so as to prevent the transport of sediment into surface waters which could result in water quality violations and DEP enforcement action. Revegetation and stabilization of disturbed areas should be accomplished as soon as possible to reduce the potential for further soil erosion. Should construction phase runoff pose a threat to the water quality of state waters, additional measures such as treatment of imposed runoff or the use of turbidity curtains (screens) in on-site impoundments shall be implemented.

11. ~~Steam System Blowdown~~ Blowdown discharge from the steam electric generating system to the cooling pond shall be limited and monitored at OSN 003 as specified below:

Effluent Characteristic	Discharge Limits	Monitoring Requirements	
	Daily Maximum	Sample Type	Measurement Frequency
TSS	30.0	grab	1/month
Oil and Grease	15.0	grab	1/month
Flow	---	Calculation	1/month

12. ~~Construction Dewatering~~

a. Discharge of construction dewatering to the cooling pond from outfall serial number 004 shall be limited and monitored as specified below:

Effluent Characteristic	Discharge Limits	Monitoring Requirements	
	Instantaneous Maximum	Measurement Frequency	Sample Type
Flow - m3/day (MGD)	---	Daily	Totalizer Calculation
Turbidity (NTU)	---	1/week	grab
TSS mg/l	50.0	1/week	grab
pH	6.0-9.0	1/week	grab

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~~b. Project discharge descriptions—Dewatering water, outfall 004, includes all surficial groundwater extracted during all excavation construction on-site for the purpose of installing structures, equipment, etc. Discharges to the cooling pond at a location to be depicted on an appropriate engineering drawing shall be submitted to DEP and SFWMD. The Licensee shall report to DEP the date that construction dewatering is expected to begin at least one week prior to the commencement of dewatering.~~

Any party to the this Order has a right to seek judicial review of it 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 of Environmental Protection in the Office of General Counsel, 3900 Commonwealth Boulevard, M.S. 35, 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 thirty days from the date this Order is filed with the Clerk of the Department of Environmental Protection.

Executed in Tallahassee, Florida.

Hamilton S. Oven

Hamilton S. Oven, P.E.

Administrator, Siting Coordination Office

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to §120.52
Florida Statutes, with the designated
Department Clerk, receipt of which is
hereby acknowledged.

Linda Karakows
Clerk

3/18/05
Date

cc:

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