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FACIL:50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co. 05000389
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OVEN,H.S. Florida, State of
RECIP.NAME RECIPIENT AFFILIATION
EISENHUT,D.G. Division of Licensing

SUBJECT: Submits Dept of Environ Regulation suggested changes based on review of environ rept. Changes necessitated by plant design changes which occurred since CP was granted.

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STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

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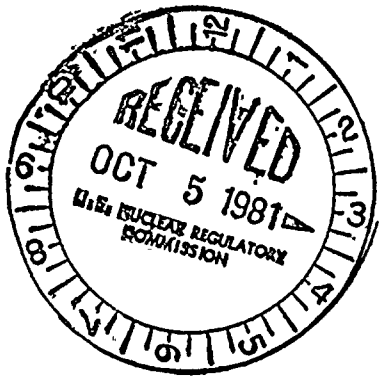
BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

September 28, 1981



Mr. Darrell G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

Re: St. Lucie Unit 2
Docket No. 50-389

Dear Mr. Eisenhut:

The Department of Environmental Regulation (DER) has reviewed the Environmental Report for the Operational License for Florida Power & Light Company (FPL) St. Lucie Plant Unit 2. The changes in plant design that have occurred since the construction license was granted requires that the state license be modified.

Review of the modified multiport diffuser indicated that a mixing zone must be designated for the thermal discharge pursuant to Section 17-3.05, Florida Administrative Code in order that the discharge be in compliance with the State water quality criteria. The DER proposes to designate a thermal mixing zone of 10.7 acre feet. Special Condition II A.2 will be changed to read.

2. Thermal Mixing Zone

The heated water discharged from the multiport diffuser shall not exceed 17°F above ambient outside of a thermal mixing zone of 10.7 acre-feet. The mixing zone shall be bounded by an area 1385.5 feet long extending seaward from the most landward discharge port, 21.0 feet to either side of the discharge pipe axis and 8.0 feet in height above the bottom of the discharge ports.

After consultation with the Environmental Protection Agency the DER will be modifying other conditions of certification dealing with effluent limitations, monitoring and sewage treatment as illustrated below.

Cw02
5/0

Condition II. B. should be modified to the following:

II.B. Chemical

Liquid wastes discharges shall not contain concentrations of pollutants ~~at the point of discharge which may be measured in the discharge canal~~ in excess of the following limitations:

1. Chlorine (Free Available Chlorine):	at condenser discharge	0.2 mg/l average)2 hr.
	at condenser discharge	0.5 mg/l maximum
	at end of discharge canal	0.1 mg/l maximum
2. Oil and Grease:		15 mg/l Daily average from low volume waste, pre-operational metal cleaning wastes, and radwaste discharges
3. Polychlorinated biphenyls or other polycyclic Halogenated compounds:		None
~~4. Copper~~		~~20 ppb~~
~~5.~~ 4. Boron:		4 mg/l (net)
~~6. Cyclohexylamines~~		~~0.5 mg/l~~
7. TSS:		30 mg/l Daily average 100 mg/l Daily Maximum at the discharge from the low volume wastes, metal cleaning wastes and radwaste discharges

Condition III.A.1. should be modified as follows:

1. Chemical - the following parameters shall be monitored ~~in the intake and/or discharge~~ and reported to the Department quarterly:

Parameter	Sampling Location	Type of Sample	Frequency Of Sampling
Flow	** Intake	Pump Logs	hourly
Temperature	** Intake/POD	- -	hourly
pH	*-POD	Grab	weekly
TDS	*-POD	Grab	monthly
TSS	Neutralization Basin	Composite	weekly
Oil and Grease	POD Neutralization Basin	8-hour-Composite Grab	weekly
Dissolved-Oxygen	*-POD	Grab	weekly
Free and-Total Chlorine Residual	*-POD Condenser Outlet	Multiple Grabs	weekly during chlorination
Total Chlorine Residual	* POD	Multiple Grabs	weekly during chlorination
Boron	* POD	Grab	when batch discharges are required ***
Copper	*-POD	Grab	monthly

* May be monitored in discharge canal at the location specified in III.A.2.b.

** May be monitored in intake canal (Plant Intake Structure)

*** From the refueling water storage tank and nonaerated waste hold up tanks (4).

III.A.2. Thermal - The monitoring of the thermal discharge shall be accomplished by-supplementing-the-program-required-by-the-NPDES-Permit-No.--FL0002208-for-Unit-No.-1-by-adding-two-recording-thermographs as follows:

a.) At the surface of the water ~~at-a-point-of-maximum-sur face-temperature-of-a~~ the discharge from Unit No. 2 the temperature shall be monitored twice annually in August and September by boat or by thermal image photography.

Condition III.B. should be modified to reflect the new biological monitoring program.

Condition VIII. should be modified as follows:

Delete existing language and replace with: Sanitary wastes shall be collected and treated in accordance with Chapter 17-6, FAC, and DER permits DO56-34536 and DC56-37127 or as maybe subsequently reissued or modified.

With these changes the Department of Environmental Regulation has no objection to the issuance of an Operational License to St. Lucie No. 2.

Sincerely,

Hamilton S. Oven, Jr.

Hamilton S. Oven, Jr., P.E.
Administrator
Power Plant Siting Section

HSOjr:my

cc: Charles Kaplan, EPA
Robert Samworth, NRC