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 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
 AUTH. NAME AUTHOR AFFILIATION
 UHRIG, R.E. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 EISENHUT, D.G. Division of Licensing

SUBJECT: Application to amend App A of Licenses DPR-31 & DPR-41,
 enabling 28% tube plugging level.

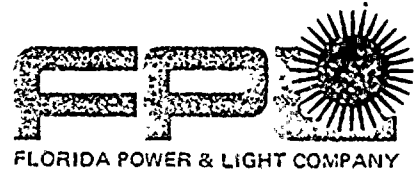
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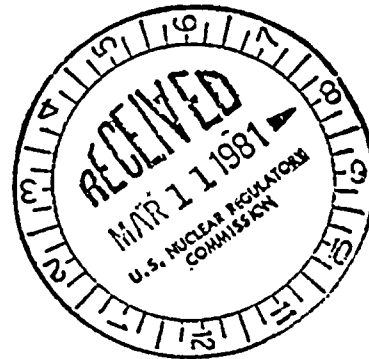
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March 5, 1981
L-81-99

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



Dear Mr. Eisenhut:

RE: Turkey Point Units 3 & 4
Docket No. 50-250 & 50-251
Licensed Amendments
28% Steam Generator Tube Plugging
ECCS Analysis

In accordance with 10 CFR 50.30 Florida Power & Light Company submits herewith three (3) signed originals and forty (40) copies of a request to amend Appendix A of Facility Operating Licenses DPR-31 and DPR-41.

Our NSSS vendor (Westinghouse Electric Corp.) has completed a revised large break LOCA analysis (Attachment A) identifying the limiting break (DECLG, $C_D = 0.4$) at a 28% steam generator tube plugging level, 95% thermal design flow and a measured T_{avg} of 574°F. (A recent flow test confirmed that the 95% design flow assumption used in the analysis conservatively bounds the flow predicted at 28% tube plugging.) The analysis resulted in a peak clad temperature (PCT) of 2183°F at an F_Q of 2.25, using the February 1978 Appendix K evaluation model and the NRC approved removal of 65°F of the fuel temperature conservatism related to the PAD code. The most limiting non LOCA accidents have also been analyzed and shown to be acceptable (Attachment B) for operation at the 28% steam generator tube plugging level.

The LOCA analysis utilizes the "Upper Head Injection (UHI) Software Technology" modeling techniques described in Appendix A of WCAP 8479, and Westinghouse letter NS-TMA-2311 dated 9/15/80 with the appropriate code modifications to reflect the design of Turkey Point Units 3 & 4 ECCS and to modify its application to a three loop plant.

The analysis also takes into account the new fuel rod models in NUREG-0630. The increase in F_Q due to the "UHI Software Technology" more than compensates for the reduction due to the fuel rod models proposed in NUREG-0630 and the increased level of steam generator tube plugging, resulting in a new F_Q of 2.125.

The proposed amendment to enable a 28% tube plugging level is described below and shown on the accompanying Technical Specification pages bearing the date of this letter in the lower right hand corner.

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Figure 2.1-1b

The curve has been updated to reflect the new steam generator tube plugging limit, and has been corrected per our NSSS vendor's recommendation.

Page 2.3-2

The overtemperature ΔT setpoint is now applicable for steam generator tube plugging ≤ 28 percent.

Page 2.3-3

The overpower ΔT setpoint values for $> 19\%$ and $\leq 25\%$ are now applicable for steam generator tube plugging $> 19\%$ and $\leq 28\%$.

Page 3.1-7

Reactor coolant limits for $>19\%$ and $\leq 25\%$ are now applicable for $>19\%$ and $\leq 28\%$ steam generator tube plugging.

Page 3.2-3

The steam generator tube plugging limit in Specification 3.2.6a is increased to 28% and the F_Q to 2.125.

Figure 3-2-3

The K(Z) curve has been modified to reflect the new steam generator tube plugging limit and new F_Q .

The proposed amendment has been approved by the Turkey Point Plant Nuclear Safety Committee and the Florida Power & Light Company Nuclear Review Board.

We have determined that since this request involves a single safety issue and a duplicate amendment, the request should be classified as a class I and III amendment pursuant to 10 CFR 170. Accordingly, a check for \$4,400 is attached.

Very truly yours,



Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/JEM/ras

Attachments

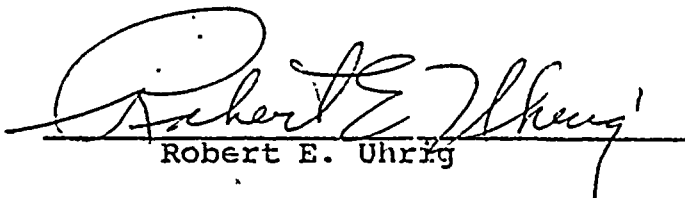
cc: Mr. James P. O'Reilly, Region II
Harold F. Reis, Esquire

STATE OF FLORIDA)
) SS
COUNTY OF DADE)

Robert E. Uhrig, being first duly sworn, deposes and says:


That he is a Vice President of Florida Power & Light Company,
the Applicant herein:

That he has executed the foregoing document; that the statements
made in this said document are true and correct to the best of
his knowledge, information and belief, and that he is authorized
to execute the document on behalf of said Applicant.


Robert E. Uhrig

Subscribed and sworn to before me

this 5 day of March, 1981


NOTARY PUBLIC, in and for the County of Dade,
State of Florida

My commission expires: Notary Public, State of Florida at Large
My Commission Expires October 30, 1993
Bonded thru Meynard Bonding Agency

