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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

SUBJECT: Application to amend App A of Licenses DPR-31 & DPR-41, changing Tech Specs,Pages 3.2-2 & 3.2-4 to reflect results of revised ECCS analysis on power distribution limits for 25% steam generator tube plugging.Revised Tech Specs encl.

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FLORIDA POWER & LIGHT COMPANY

June 5, 1980
L-80-171

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 and 4
Docket Nos. 50-250 and 50-251
Proposed Amendment to Facility
Operating Licenses DPR-31 and DPR-41

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 ECCS analysis for Turkey Point Units 3 & 4 for a steam generator tube plugging level of 25%. The revised analysis was performed to account for an "upper head" effect that could reduce core cooling during the first few seconds of a LOCA.

The previous analysis assumed that during a LOCA reactor coolant flow between the upper head region and the core terminates when the reactor vessel level passes below the top of the guide tubes. During the early phase of a LOCA, the upper head fluid enters the core through the control rod guide tube flow holes and retards the normal cooling flow passing upward through the core. However, flow through the control rod guide tube flow holes is, in fact, expected to terminate when vessel level passes below the upper support plate, which is approximately 3 feet below the top of the guide tubes. A reduction in the maximum allowed "heat flux hot channel factor" (F_q) is required to conservatively accommodate the effect described above.

In performing the revised analysis, the February, 1978 Appendix K evaluation model was used for the worst DECLG break (C_D=0.4), assuming the upper head correction described above, a steam generator tube plugging level of 25%, a 5% reduction in thermal design flow, and removal of a 65°F fuel temperature conservatism. Our most recently approved ECCS analysis (Amendments 57 and 50 to Operating Licenses DPR-31 and DPR-41, respectively, dated May 15, 1980) was also based on the above assumptions, with the exception of the upper head correction. The current revised analysis has been performed at an F_q of 1.93 for 25% tube plugging with a resulting PCT of 2171°F. The containment heat sinks, as shown in Table 3 have been revised to reflect the latest as-built conditions. The detailed results of the analysis are attached.

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The proposed amendment 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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Pages 3.2-3 and 3.2-4

Specifications 3.2.6.a (1) and 3.2.6.a(2) are combined to reflect the results of the most recent ECCS analysis on the power distribution limits for a steam generator tube plugging level of 25%.

Old Figures 3.2-3, 3.2-3a, and 3.2-3b

These figures are no longer applicable and are deleted.

New Figure 3.2-3

The normalized hot channel factor operating envelope for a steam generator tube plugging level of 25% is provided to reflect the results of the most recent ECCS analysis.

The proposed amendment has been reviewed by the Turkey Point Plant Nuclear Safety Committee and the Florida Power & Light Company Nuclear Review Board. They have concluded that it does not involve an unreviewed safety question.

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 a Class III amendment pursuant to 10 CFR 170. Accordingly, a check for $4,400 is attached.

Very truly yours,

for Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/MAS/cph

Attachments

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