

January 31, 2000

Mr. Thomas F. Plunkett
President - Nuclear Division
Florida Power and Light Company
P.O. Box 14000
Juno Beach, Florida 33408-0420

SUBJECT: TURKEY POINT UNITS 3 AND 4 - REQUEST OF ADDITIONAL INFORMATION
REGARDING SOLUBLE BORON CREDIT FOR SPENT FUEL POOL AND
FRESH FUEL RACK CRITICALITY ANALYSES (TAC NOS. MA7262
AND MA7263)

Dear Mr. Plunkett:

By letter dated November 30, 1999, Florida Power and Light Company's (FPL's) proposed technical specification changes for Turkey Point Units 3 and 4. The proposed changes would permit taking credit for the soluble boron in the spent fuel pool and fresh fuel rack criticality analyses in order to accommodate degradation of the boraflex panels in the fuel storage racks.

The NRC staff has reviewed FPL's submittal and has determined that additional information is needed by the staff before it can complete its review. The enclosed request for additional information (RAI) has been discussed with S. Mihalakea of your staff. A target date for your response has been agreed upon to be 30 days from your receipt of this RAI. Should a situation occur that prevents you from meeting the target date, please contact me at (301) 415-1496.

Sincerely,

/RA/

Kahtan N. Jabbour, Senior Project Manager, Section 2
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-250 and 50-251

Enclosure: Request for Additional Information

cc w/encl: See next page

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/RA by R. Hernan for/
 Kahtan N. Jabbour, Senior Project Manager, Section 2
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REQUEST FOR ADDITIONAL INFORMATION

RELATED TO THE AMENDMENT OF THE TECHNICAL SPECIFICATIONS
FOR SOLUBLE BORON CREDIT FOR SPENT FUEL POOL AND FRESH FUEL RACK
CRITICALITY ANALYSES

TURKEY POINT UNITS 3 AND 4
FLORIDA POWER AND LIGHT COMPANY
DOCKET NOS. 50-250 AND 50-251

1. The NRC staff safety evaluation report contained in WCAP-14416-NP-A presents the required technical specifications for use with the approved soluble boron credit methodology. The Fuel Storage Criticality specifications in the Design Features Section for both k_{eff} less than 1.0 if fully flooded with unborated water and for k_{eff} less than or equal to 0.95 if fully flooded with borated water require reference to WCAP-14416-P for a description of the uncertainties included. Therefore, proposed technical specifications 5.6.1.1.a and 5.6.1.1.b should include the phrase "which includes a conservative allowance for uncertainties as described in WCAP-14416-P."
2. Please describe the administrative procedures used to select the appropriate assemblies for storage in the burnup-dependent racks in Region 2.
3. Attachment 5 describes the criticality analysis performed with a reduced B-10 loading in the degraded boraflex. The assumptions in the analysis include the following:
Region 1: 0.009 g/cm² absorber B-10 loading and 0.0351 inch thickness
Region 2: 0.006 g/cm² absorber B-10 loading and 0.051 inch thickness

The analysis based on these assumptions results in a K_{eff} less than 1.0 with no soluble boron. Please provide your plan to verify that the boraflex panels have not degraded beyond the assumed thicknesses.

Mr. T. F. Plunkett
Florida Power and Light Company

TURKEY POINT PLANT

cc:

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