

Docket Nos. 50-250 June 2, 1984
and 50-251

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Mr. J. W. Williams, Jr., Vice President
Nuclear Energy Department
Florida Power and Light Company
Post Office Box 14000
Juno Beach, Florida 33408

Dear Mr. Williams:

SUBJECT: PROPOSED SPENT FUEL POOL EXPANSION FOR TURKEY POINT
UNITS 3 AND 4 - REQUEST FOR ADDITIONAL INFORMATION

By letter dated March 14, 1983, you requested that the Technical Specifications for Turkey Point Plant Units 3 and 4 be modified to expand the spent fuel storage facilities. The expansion is necessary to accommodate an expected increase in the inventory of spent fuel assemblies above the capacity of the existing storage facilities.

The staff is currently reviewing your requested and needs additional information identified in the enclosure to this letter. The request is related to criticality considerations. To meet our current review schedule, we request that the information be provided within 30 days from receipt of this letter.

The reporting and/or recordkeeping requirements of this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

/s/SVarga

Steven A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing

Enclosure:
As stated

cc w/enclosure:
See next page

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J. W. Williams, Jr.
Florida Power and Light Company

Turkey Point Plants
Units 3 and 4

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QUESTIONS ON TURKEY POINT UNITS 3 & 4
SPENT FUEL POOL EXPANSION
CORE PERFORMANCE BRANCH

1. What is the nominal case k_{eff} for Region 1 calculated by KENO and what are the values of the biases and uncertainties referenced in Section 3.1.4.1?
2. What computer codes were used to calculate the reactivity of the temporary checkerboard configuration in Region II? What is the nominal case k_{eff} and what are the values of the biases and uncertainties referenced in Section 3.1.4.2.2?
3. What are the values of the biases and uncertainties referenced in Section 3.1.4.2.1 for Region II?
4. What constant value of rack k_{eff} (including biases and uncertainties) do Technical Specification Table 3.17-1 and Spent Fuel Storage Facility Modification Safety Analysis Report Figure 3-3 represent?
5. In those cases where fuel is to be placed in a checkerboard arrangement, we require the vacant spaces adjacent to the assembly being inserted to be physically blocked to prevent inadvertent assembly insertion. Please modify your design and procedures accordingly.
6. Since storage in Region II is dependent upon initial enrichment as well as burnup, we request that all references to the U-235 loading in the Technical Specifications be in terms of weight percent U-235 (enrichment) for consistency.
7. Most of the previously analyzed PWR multi-region burnup-dependent spent fuel pools have operating procedures which require fuel to be stored initially in the "safe" burnup-independent region (Region I) before determining if storage in the burnup-dependent region (Region II) is appropriate. Please comment on the advisability of this for Turkey Point.