

September 17, 1984

Distribution

Docket Nos. 50-250/251

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

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Dear Mr. Williams:

SUBJECT: AUXILIARY ELECTRICAL POWER UPGRADE

Re: TURKEY POINT PLANT UNITS 3 AND 4

The Turkey Point Plant experienced a series of events on February 12 and 16, 1984, which included reactor trips, unscheduled shutdowns and loss of offsite power to Unit 3. By confirmation of Action Letter dated February 21, 1984, Florida Power and Light identified interim actions which were completed prior to restart and long term actions which included a review of the offsite and onsite electrical power system. FPL provided the results of their review and proposed design modifications for the NRC to review and approve prior to completing the proposed changes.

By letters dated June 22 and July 25, 1984, FPL provided design details and analysis in support of the auxiliary power upgrade. The staff has completed their review of the proposed design changes. The changes provide improved separation of safety related loads; eliminates AC system undervoltage operating constraints; provides a direct electrical station blackout tie from the existing five cranking diesels to the Units' 4.16 KV busses; minimizes interaction with the fossil units and; provides additional electrical ties to the switch yard.

Based on the staff review of the information provided and our site visit on June 5 and 6, 1984, we have concluded that the design of the auxiliary electric power system upgrade results in an overall improvement in the electrical system and plant safety and is, therefore, acceptable. The details of our review are provided in the enclosed Safety Evaluation.

Sincerely,

/s/DWigginton, for

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

Enclosure:
As stated


cc w/enclosure:

See next page

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