February 2, 2001

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE TURKEY POINT, UNITS 3 AND 4, LICENSE RENEWAL APPLICATION

Dear Mr. Plunkett:

By letter dated September 8, 2000, Florida Power and Light (FPL), submitted for the Nuclear Regulatory Commission's (NRC) review an application pursuant to 10 CFR Part 54, to renew the operating license for Turkey Point Nuclear Plant, Units 3 and 4. The NRC staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete its safety review. Specifically, the enclosed questions relate to Sections 3.3 "Engineered Safety Features System."

Please provide a schedule by letter, electronic mail, or telephonically for the submittal of your responses within 30 days of the receipt of this letter. Additionally, the staff would be willing to meet with FPL prior to the submittal of the responses to provide clarifications of the staff's requests for additional information.

Sincerely,

/RA/

Rajender Auluck, Senior Project Manager
License Renewal and Standardization Branch
Division of Regulatory Improvement Program
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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REQUEST FOR ADDITIONAL INFORMATION
TURKEY POINT, UNITS 3 AND 4

Section 3.3 Engineered Safety Features Systems

RAI 3.3 - 1: In Section 3.3.2 of the LRA, the applicant states that the aging effect requiring management for carbon steel mechanical closure bolting is the loss of mechanical closure integrity. This aging effect, as listed in Tables 3.3-1 through 3.3-7, is managed by Boric Acid Wastage Surveillance Program described in Appendix B, Section 3.2.3. For closure bolting, loss of material, loss of preload, and crack initiation and growth due to stress corrosion cracking are applicable aging effects that are not described in the boric acid wastage surveillance program. Provide a discussion of how the Boric Acid Wastage Surveillance Program would manage these aging effects including acceptance criteria and specific operating experience. If this program does not adequately manage these aging effects then discuss the specific aging management program that will be used to manage the aging effects of the closure bolting.

Section 3.3.2 Containment Spray

RAI 3.3.2-1: For all stainless steel pressure retaining components, such as, pumps, valves, piping, fittings, tubing, etc., in the containment spray system, where borated water is the internal environment, is crack initiation and growth due to stress corrosion cracking an applicable aging effect? It appears to be a possible effect according to some of the industry experience as listed in Section 3.3.3.1 of the Turkey Point license renewal application (LRA). Is there an inservice inspection aging management program in place to address this aging effect? If not, provide an explanation of why this aging effect is not addressed in the LRA or a discussion of the program that manages these aging effects.

Section 3.3.3 Containment Isolation System

RAI 3.3.3-1: In Section 2.3.2.3 of the Turkey Point LRA, FPL states that all containment penetrations and associated containment isolation valves and components that ensure containment integrity, regardless of where they are described, require an aging management review. Provide a cross reference to sections in the LRA where aging effects and aging management programs for the containment isolation valves and associated piping are described and summarize the applicable aging effects and the programs used to manage them.

RAI 3.3.3-2: For containment isolation, Section 3.3.2 of the Turkey Point LRA, states that the aging effect requiring management is loss of material for carbon steel components and the aging effect requiring management for carbon steel mechanical closure bolting is loss of mechanical closure integrity, clarify if these aging effects apply to all containment isolation valves and associated piping or is limited to the ones described in this section.

Section 3.3.4 Safety Injection System

RAI 3.3.4 -1: In Table 3.3-4 of the Turkey Point LRA, FPL indicates that the SI pump thrust bearing coolers and SI shaft seal heat exchanger shells and covers are fabricated from cast iron materials. Volume Four of the American Welding Society (AWS) *Welding Handbook* indicates that welding of cast iron materials tends to result in the precipitation of carbides and

the formation of high-carbon martensitic material in the heat affected zones immediately adjacent to the weld metal. Since both of these materials are extremely brittle, the AWS states that welded cast iron materials may be susceptible to spontaneous cracking or cracking while in service. FPL has not identified cracking as an aging effect that could effect these components during the periods of extended operation for the Turkey Point units. Clarify whether or not the SI pump thrust bearing coolers and SI shaft seal heat exchanger shells and covers have any welds in them. If these components do contain welded regions, cracking must be added as an aging effect that needs managing in these components during the periods of extended operation for the Turkey Point units.

RAI 3.3.4 - 2: In Section 3.3.2 of the TP LRA, FPL identifies that cracking of stainless steel and Inconel components in the SI system is an aging effect that requires management during the periods of extended operation for the TP units. However, this aging effect was not included in Table 3.3-4 for stainless steel and Inconel components in the SI system. Clarify whether or not the operating conditions for the SI system, when taken into account with the environmental conditions for the system, will allow FPL to preclude cracking as a potential aging effect for the stainless steel and Inconel SI components. If cracking is an applicable aging effect for the stainless steel and Inconel SI components, then Table 3.3-4 should be modified accordingly.

RAI 3.3.4 - 3: In Section 3.3.2 and Table 3.3-4 of the TP LRA, FPL identifies that the SI pump shaft seal heat exchanger tube shields, which are fabricated from brass material, may be effected by loss of material. Since Section 5.2 of Appendix C does not discuss whether cracking of brass materials is an aging effect requiring management, discuss your basis for not including it as a plausible aging effect for the SI pump shaft seal heat exchanger tube shields.

Section 3.3.5 Residual Heat Removal System

RAI 3.3.5 - 1: For those RHR components identified in Table 3.3-5 as being within the scope of license renewal and for whom cracking has been identified as a potential aging effect, justify why the chemistry control program is sufficient by itself as the basis for managing this aging effect.

Florida Power & Light Company

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