



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

November 29, 2010

Mr. Mano Nazar  
Executive Vice President and  
Chief Nuclear Officer  
Florida Power and Light Company  
P.O. Box 14000  
Juno Beach, Florida 33408-0420


SUBJECT: TURKEY POINT UNIT 4 - SUMMARY OF THE STAFF'S REVIEW OF  
THE 2009 STEAM GENERATOR TUBE INSERVICE INSPECTIONS

Dear Mr. Nazar:

By letter dated April 21, 2010 (Agencywide Document and Management System (ADAMS) Accession No. ML101250532), Florida Power and Light Company (the licensee), submitted information summarizing the results of the Turkey Point Unit 4, fall 2009 steam generator tube inspections. In addition, the U.S. Nuclear Regulatory Commission (NRC) staff summarized additional information concerning the 2009 steam generator tube inspections at Turkey Point in a letter dated January 27, 2010 (ADAMS Accession No. ML100251277).

The NRC staff has completed its review of these reports and concludes that the licensee provided the information required by the Turkey Point Unit 4 technical specifications and that no additional follow-up is required at this time. The staff's review of this report is enclosed.

Should you have any questions you can contact me at 301-415-5888.

Sincerely,  


Jason C. Paige, Project Manager  
Plant Licensing Branch II-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-251

Enclosure:  
Summary of the 2009 Steam Generator  
Tube Inspections

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SUMMARY OF THE U. S. NUCLEAR REGULATORY COMMISSION STAFF'S REVIEW

TURKEY POINT UNIT 4

2009 STEAM GENERATOR TUBE INSPECTIONS

DOCKET NUMBER 50-251

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Turkey Point Unit 4 has three Westinghouse Model 44F steam generators (SGs). The Unit 4 SGs were placed in service in 1983; each SG has 3,214 thermally treated Alloy 600 tubes. The tubes are supported by stainless steel tube support plates with quatrefoil-shaped holes and V-shaped anti-vibration bars.

The licensee provided the scope, extent, method, and results of the Turkey Point Unit 4 SG tube inspections in the documents referenced above. The fall 2009 SG tube inspections were conducted in all three SGs (4A, 4B, and 4C).

The staff has the following notes as a result of reviewing the aforementioned submittals:

1. The Turkey Point Unit 4 SGs have accumulated approximately 244 effective full-power months (EFPM) of operation. The licensee stated that this is the second refueling outage in the 60 EFPM inspection period.
2. Secondary side integrity is important at ensuring SG tube integrity. As a result, SG programs address secondary side integrity. The licensee provided the scope and results (condition monitoring) of their secondary side activities. For example, a secondary side upper bundle flush and subsequent lancing were conducted on all three SGs. Approximately 68 pounds of material were removed from all three SGs. Visual inspections showed that the SGs were relatively clean with no significant buildup of deposits and that the support flow holes remain open. The licensee performed a post lance foreign object search and retrieval and identified several objects that were unable to be retrieved from the SGs, but will be actively tracked. No tube degradation was associated with any of the objects left in service and an analysis was performed that indicated it was acceptable to leave these objects in service until the next inspection.

Based on a review of the information provided, the staff concludes that the licensee provided the information required by the technical specifications. In addition, the staff concludes that there are no technical issues that warrant follow-up actions at this time since the inspections appear to be consistent with the objective of detecting potential tube degradation and the inspection results appear to be consistent with industry operating experience at similarly designed and operated units.

ENCLOSURE

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The NRC staff has completed its review of these reports and concludes that the licensee provided the information required by the Turkey Point Unit 4 technical specifications and that no additional follow-up is required at this time. The staff's review of this report is enclosed.

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*/RA/*

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