

**INTERIM REPORT**

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**Subject of this Document:**  
Technical Specifications for the Inspection of Steam Generators,  
Turkey Point, Unit Nos. 3 and 4

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Technical Evaluation Report

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**Responsible NRC Individual and NRC Office or Division:**  
J. N. Donohew, Division of Licensing

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EG&G Idaho, Inc.  
Idaho Falls, Idaho 83415

Prepared for the  
U.S. Nuclear Regulatory Commission  
Washington, D.C.  
Under DOE Contract No. DE-AC07-76ID01570  
NRC FIN No. A6429

**INTERIM REPORT**

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TECHNICAL SPECIFICATIONS FOR THE INSPECTION OF STEAM GENERATORS

TURKEY POINT, UNIT NOS. 3 AND 4

Docket Nos. 50-250, 50-251

January 1982

by

J. A. Steverson  
Reliability and Statistics Branch  
Engineering Analysis Division  
EG&G Idaho, Inc.

## ABSTRACT

This report reviews the Turkey Point, Unit Nos. 3 and 4 technical specifications for steam generator inspection.

## FOREWORD

This report is supplied as part of the "Selected Operating Reactor Issues Program (III)" being conducted for the U.S. Nuclear Regulatory Commission, Office of Nuclear Reactor Regulation, Division of Licensing, by EG&G Idaho, Inc., Reliability and Statistics Branch.

The U.S. Nuclear Regulatory Commission funded the work under the authorization, B&R 20 19 02 06, FIN No. A6429.



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## TECHNICAL EVALUATION REPORT

### TECHNICAL SPECIFICATIONS FOR THE INSPECTION OF STEAM GENERATORS TURKEY POINT, UNIT NOS. 3 AND 4

#### 1.0 INTRODUCTION

Turkey Point steam generators have been inspected according to special license conditions imposed originally by Amendment 20, dated December 3, 1976, for Unit 4 and by Amendment 22, dated January 14, 1977, for Unit 3. Thus, technical specifications for the inservice inspection of the steam generator tubes were not required. By letter, dated July 1, 1981,<sup>1</sup> the NRC requested Turkey Point 3 and 4 review their submittals and appropriately modify them, using as a guide the technical specifications for steam generator inspection provided by the NRC.

On December 18, 1981, Florida Power and Light (FP&L) submitted proposed changes to their technical specifications (TS).<sup>2</sup> The following discussion evaluates the proposed Turkey Point TS and notes any differences existing between them and the NRC model TS.

#### 2.0 DISCUSSION AND EVALUATION

Turkey Point, Units 3 and 4 are three loop Westinghouse PWR Plants. The specific sections of the Westinghouse Standard Technical Specifications<sup>3</sup> that apply to this task are as follows:

##### 3/4.4 REACTOR COOLANT SYSTEM

##### 3/4.4.6 STEAM GENERATORS

##### 3/4.4.7 REACTOR COOLANT SYSTEM LEAKAGE

The licensee proposed the following changes and incorporations to their technical specifications. First, Specification 3.1.3.6 was revised and 3.1.3.g was added to incorporate limiting conditions for operation regarding primary-to-secondary leakage through steam generator tubes. This satisfies requirements 3.4.7.2.c and 3.4.7.2.d in the NRC standard TS. Secondly, a



steam generator inspection program was added to the licensee's section on Reactor Coolant System Inservice Inspection. The program is in Section 4.2.5, Steam Generator Inspection, and in Tables 4.2-2 and 4.2-3 of their proposed TS and coincides with Section 3/4.4.6, Steam Generators, and with Tables 4.4-1 and 4.4-2 of the Westinghouse Standard TS.

Also in the steam generator inspection program, the Westinghouse Standard TS in Section 4.4.6.3.a, Inspection Frequencies, require the first inservice inspection to be performed after six effective full power months but within 24 calendar months of initial criticality. The licensee's corresponding requirement in Section 4.2.5.3.a, requires the first inservice inspection to be performed after the first refueling following initial criticality or replacement of steam generators (whichever is later).

### 3.0 CONCLUSION

The proposed TS submitted by FP&L for Turkey Point, Units 3 and 4 included revisions and/or additions regarding (1) primary-to-secondary leakage through steam generator tubes, and (2) a steam generator inspection program. A basis for the steam generator inspection was also added to the specification.

The TS proposed by Turkey Point are in agreement with the Westinghouse Standard TS with two exceptions. The preceeding evaluation noted (1) an omission in the Turkey Point TS concerning the inspection of the first sample of steam generator tubes, and (2) a difference in the timing of the first inservice inspection of a steam generator.

### 4.0 REFERENCES

1. NRC letter, S. A. Varga, to FP&L, R. E. Uhrig, dated July 1, 1981.
2. FP&L letter, R. E. Uhrig, to NRC, D. G. Eisenhut, dated December 18, 1981.
3. Standard Technical Specifications for Westinghouse PWRs, NUREG-0452, Rev. 3, Fall 1980.





UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NOS. 50-250 AND 50-251FLORIDA POWER AND LIGHT COMPANYNOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY  
OPERATING LICENSES

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 81 to Facility Operating License No. DPR-31, and Amendment No. 75 to Facility Operating License No. DPR-41 issued to Florida Power and Light Company (the licensee), which revised Technical Specifications for operation of Turkey Point Plant, Unit Nos. 3 and 4 (the facilities) located in Dade County, Florida. The amendments are effective as of the date of issuance.

The amendments incorporate the steam generator inservice inspection requirements into the Technical Specifications. These specifications replace Facility Operating License No. DPR-31 condition 3.E for Unit 3 effective as of the date of this amendment and Facility Operating License No. DPR-41 condition 3.D for Unit 4 effective as of the date of completion of the steam generator replacement in Unit 4.

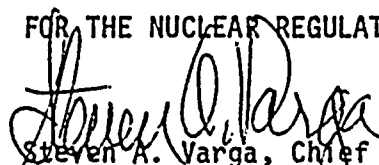
The application for the amendments complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendments. Prior public notice of these amendments has not required since the amendments do not involve a significant hazards consideration.

The Commission has determined that the issuance of these amendments will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of these amendments.

For further details with respect to this action, see (1) the application for amendments dated December 18, 1981, (2) Amendment Nos. 81 and 75 to License Nos. DPR-31 and DPR-41, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D.C. and at the Environmental and Urban Affairs Library, Florida International University, Miami, Florida 33199. A copy of items (2) and (3) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 24th day of March, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

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



Docket Nos. 50-250  
and 50-251

MAR 17 1982

Dr. Robert E. Uhrig, Vice President  
Advanced Systems and Technology  
Florida Power and Light Company  
Post Office Box 529100  
Miami, Florida 33152

Dear Dr. Uhrig:

The Commission has issued the enclosed Amendment No. 80 to Facility Operating License No. DPR-31 and Amendment No. 74 to Facility Operating License No. DPR-41 for the Turkey Point Plant Unit Nos. 3 and 4, respectively. The amendments consist of changes to the Technical Specifications in response to your application transmitted by letter dated May 14, 1981, as supplemented November 23, 1981 and January 28, 1982.

These amendments revise the Technical Specifications to specify new power distribution limits for base load and radial burndown operation.

We have received your letter dated March 15, 1982 which satisfied the current requirements of Technical Specification 6.9.3 for Unit 3. Such a report is not necessary for Unit 4 at this time because  $P_T$  is not less than 1.

We have found it necessary to make changes in certain of the Technical Specifications. We have discussed the changes with your staff. They found the changes acceptable and the changes have been incorporated.

Copies of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

ORIGINAL SIGNED

Marshall Grotenhuis, Project Manager  
Operating Reactors Branch #1  
Division of Licensing

Enclosures:

1. Amendment No. 80 to DPR-31
2. Amendment No. 74 to DPR-41
3. Safety Evaluation
4. Notice of Issuance

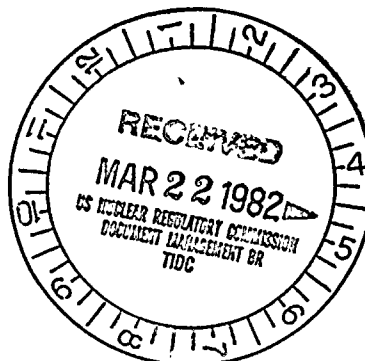
cc w/enclosures: *Q*  
See next page

\*Previous concurrence see next page

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*See Correction  
letter dated  
5/26/82*





Docket Nos. 50-250  
and 50-251

Dr. Robert E. Uhrig, Vice President  
Advanced Systems and Technology  
Florida Power and Light Company  
Post Office Box 529100  
Miami, Florida 33152

Dear Dr. Uhrig:

The Commission has issued the enclosed Amendment No. to Facility Operating License No. DPR-31 and Amendment No. to Facility Operating License No. DPR-41 for the Turkey Point Plant Unit Nos. 3 and 4, respectively. The amendments consist of changes to the Technical Specifications in response to your application transmitted by letter dated May 14, 1981, as supplemented November 23, 1981 and January 28, 1982.

These amendments revise the Technical Specifications related to base load and radial burndown.

Copies of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

Marshall Grotenhuis, Project Manager  
Operating Reactors Branch #1  
Division of Licensing

Enclosures:

1. Amendment No. to DPR-31
2. Amendment No. to DPR-41
3. Safety Evaluation
4. Notice of Issuance

cc w/enclosures:  
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DATE	02/8/82	02/4/82:ds	02/8/82	02/10/82	02/12/82	





Robert E. Uhrig  
Florida Power and Light Company

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Environmental and Urban Affairs Library  
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