

April 30, 1991

Docket Nos. 50-250
and 50-251

DISTRIBUTION
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Mr. J. H. Goldberg
President-Nuclear Division
Florida Power and Light Company
P.O. Box 14000
Juno Beach, Florida 33408-0420

Dear Mr. Goldberg:

SUBJECT: TURKEY POINT UNITS 3 AND 4 - ISSUANCE OF AMENDMENTS RE: REACTOR
VESSEL MATERIAL SURVEILLANCE PROGRAM - WITHDRAWAL SCHEDULE
(TAC NOS. 79631 AND 79632)

The Commission has issued the enclosed Amendment No. 141 to Facility Operating License No. DPR-31 and Amendment No. 136 to Facility Operating License No. DPR-41 for the Turkey Point Plant, Units Nos. 3 and 4, respectively. The amendments consist of changes to the Technical Specifications (TS) in response to your application transmitted by letter dated January 25, 1991.

These amendments modify TS Table 4.4-5, "Reactor Vessel Material Surveillance Program - Withdrawal Schedule," to place surveillance capsule X in a higher flux position.

A copy of the Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

(Original Signed By)

Rajender Auluck, Sr. Project Manager
Project Directorate II-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No.141 to DPR-31
2. Amendment No.136 to DPR-41
3. Safety Evaluation

cc w/enclosures:
See next page

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Mr. J. H. Goldberg
Florida Power and Light Company

Turkey Point Plant

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

FLORIDA POWER AND LIGHT COMPANY
DOCKET NO. 50-250
TURKEY POINT PLANT UNIT NO. 3
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 141
License No. DPR-31

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Florida Power and Light Company (the licensee) dated January 25, 1991, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public;
and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 3.B of Facility Operating License No. DPR-31 is hereby amended to read as follows:

(B) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 141, are hereby incorporated in the license. The Environmental Protection Plan contained in Appendix B is hereby incorporated into the license. The licensee shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Herbert N. Berkow, Director
Project Directorate II-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: April 30, 1991



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

FLORIDA POWER AND LIGHT COMPANY
DOCKET NO. 50-251
TURKEY POINT PLANT UNIT NO. 4
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 136
License No. DPR-41

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Florida Power and Light Company (the licensee) dated January 25, 1991, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

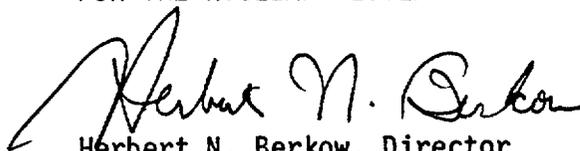
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 3.B of Facility Operating License No. DPR-41 is hereby amended to read as follows:

(B) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 136, are hereby incorporated in the license. The Environmental Protection Plan contained in Appendix B is hereby incorporated into the license. The licensee shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Herbert N. Berkow, Director
Project Directorate II-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: April 30, 1991

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 141 FACILITY OPERATING LICENSE NO. DPR-31

AMENDMENT NO. 136 FACILITY OPERATING LICENSE NO. DPR-41

DOCKET NOS. 50-250 AND 50-251

Revise Appendix A as follows:

Remove Page

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Insert Page

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TABLE 4.4-5

REACTOR VESSEL MATERIAL SURVEILLANCE PROGRAM - WITHDRAWAL SCHEDULE

UNIT 3

<u>CAPSULE NUMBER</u>	<u>VESSEL LOCATION</u>	<u>LEAD FACTOR</u>	<u>WITHDRAWAL TIME</u>
U	30°	0.49	Standby
V	--	---	Specimen withdrawn at 12 years
W	40°	0.34	Standby
X	270°	2.48	33 years
Y	150°	0.49	Standby
Z	230°	0.34	Standby

UNIT 4

<u>CAPSULE NUMBER</u>	<u>VESSEL LOCATION</u>	<u>LEAD FACTOR</u>	<u>WITHDRAWAL TIME</u>
U	30°	0.49	Standby
V	290°	0.79	24 years
W	40°	0.34	Standby
X	270°	2.48	Standby
Y	150°	0.49	Standby
Z	230°	0.34	Standby



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 141 TO FACILITY OPERATING LICENSE NO. DPR-31
AND AMENDMENT NO.136 TO FACILITY OPERATING LICENSE NO. DPR-41
FLORIDA POWER AND LIGHT COMPANY
TURKEY POINT UNIT NOS. 3 AND 4
DOCKET NOS. 50-250 AND 50-251

1.0 INTRODUCTION

By letter dated January 25, 1991, Florida Power and Light Company (the licensee) requested approval to revise Table 4.4-5, "Reactor Vessel Material Surveillance Program - Withdrawal Schedule," in the Turkey Point Units 3 and 4 (TP3 and TP4) Technical Specifications. The purpose of this request is to move the surveillance capsule X from the 50° vessel location to the 270° vessel location. This will place surveillance capsule X in a higher flux location.

10 CFR Part 50, Appendix H, "Reactor Vessel Material Surveillance Program Requirements," requires that reactor vessels constructed of ferritic materials have their beltline regions monitored by a surveillance program complying with ASTM E 185, "Standard Practice for Conducting Surveillance Tests for Light-Water Cooled Nuclear Power Reactor Vessels," and that the requirements of ASTM E 185-82 be met, to the extent practicable, for capsules withdrawn after July 26, 1983. The staff, in a letter dated April 22, 1985, approved an integrated surveillance program for TP3 and TP4 in accordance with the criteria in Section II.C of 10 CFR Part 50, Appendix H.

In a letter dated August 29, 1986, the licensee submitted for staff review a report entitled, "Reactor Vessel Material Surveillance Program for Turkey Point Unit 3, Analysis of Capsule V." This report contains reactor vessel material surveillance data, which are used to evaluate the effect of neutron irradiation on the Turkey Point reactor vessel beltline materials. The licensee has previously withdrawn and reported the test results from reactor vessel material surveillance capsules from TP3 and TP4. The staff's evaluation dated October 30, 1987, recommended that surveillance capsule X be moved to a higher flux location.

2.0 EVALUATION

In their January 25, 1991 letter, the licensee stated that the X capsule currently has a "lead" factor of 0.34 based on its placement in the TP3 and TP4 reactor vessels. The lead factor is determined by the ratio of the neutron fluence at the surveillance capsule to the neutron fluence at the

reactor vessel inside surface. The 270° vessel position, formerly occupied by capsule T (removed from the TP3 and TP4 reactor vessels in 1974 and 1975, respectively), has a lead factor of 2.48. By moving surveillance capsule X to the surveillance capsule T position, it would accumulate fluence at a much greater rate than the reactor vessel. In addition, the placement of surveillance capsule X in a higher flux position would enhance the licensee's capabilities to predict the end-of-life reactor vessel properties, and conform to the recommendations of ASTM E 185-82 regarding accumulated neutron fluence for an end-of-life capsule. Capsule X is scheduled to be removed from the TP3 reactor vessel after 33 years of operation. The TP4 capsule X is a standby capsule.

The staff has completed its review of licensee's request to move surveillance capsule X to a higher flux location. The review concludes that the proposed action is consistent with the recommendations contained in staff's Safety Evaluation of the reactor vessel surveillance program of the TP3 capsule V, dated October 30, 1987, and is therefore acceptable.

3.0 STATE CONSULTATION

Based upon the written notice of the proposed amendments, the Florida State official had no comments.

4.0 ENVIRONMENTAL CONSIDERATION

These amendments change a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes surveillance requirements. The NRC staff has determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendments involve no significant hazards consideration and there has been no public comment on such finding (56 FR 6875). Accordingly, these amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of these amendments.

5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: R. Auluck

Date: April 30, 1991

DATED: April 30, 1991

AMENDMENT NO. 141 TO FACILITY OPERATING LICENSE NO. DPR-31-TURKEY POINT UNIT 3
AMENDMENT NO. 136 TO FACILITY OPERATING LICENSE NO. DPR-41-TURKEY POINT UNIT 4

Docket File

NRC & Local PDRs

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