

Dockets Nos. 50-250 ✓
and 50-251

NOV 26 1974

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Florida Power and Light Company
ATTN: Dr. Robert E. Uhrig
Vice President of Nuclear Affairs
P. O. Box 13100
Miami, Florida 33101

Gentlemen:

The Commission has issued the enclosed Amendment No. 5 to Facility Operating License No. DPR-31 and Amendment No. 4 to Facility Operating License No. DPR-41 for Turkey Point Nuclear Generating Units 3 and 4. These amendments include Change No. 17 to the Technical Specifications and are in response to your request dated November 5, 1974, and staff discussions.

These amendments apply the present Unit 3 Cycle 1 fuel residence limit to the initial portion of Cycle 2. Therefore, it will be possible for Unit 3 to return to operation while your requests of October 24 and 30, 1974 are under consideration.

Copies of the related Safety Evaluation and the Federal Register Notice are also enclosed.

Sincerely,

Original Signed

George Lear, Chief
Operating Reactors Branch #3
Directorate of Licensing

bcc: H. J. McAlduff
J. R. Buchanan
T. B. Abernathy

Enclosures:

- 1. Amendment No. 5
- 2. Amendment No. 4
- 3. Safety Evaluation
- 4. Federal Register Notice

cc: See next page

OFFICE >	ORB#3 <i>DL</i>	OR <i>N</i>	ORB#3	OGC <i>WCHANDLER</i>	L:AD/ORS <i>KRG</i>	I:AD/ORS <i>Stello</i>
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cc: w/enclosures

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Mrs. Fred T. Suber, Librarian
Lily Lawrence Row Public Library
212 N. W. First Avenue
Homestead, Florida 33030

Mr. Dave Hopkins
U.S. Environmental Protection Agency
Region IV Office
1421 Peachtree Street, N. E.
Atlanta, Georgia 30309

OFFICE						
SURNAME						
DATE						



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

FLORIDA POWER AND LIGHT COMPANY

DOCKET NO. 50-250

TURKEY POINT NUCLEAR GENERATING UNIT 3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 5
License No. DPR-31

1. The Atomic Energy Commission (the Commission) has found that:
 - A. The application for amendment by Florida Power and Light Company (the licensee) dated November 5, 1974, 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. Prior public notice of this amendment is not required since the amendment does not involve a significant hazards consideration.
2. Accordingly, the license is amended by a change 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

The Technical Specifications contained in Appendices A and B, as revised, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications, as revised by issued changes thereto through Change No. 17."

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

FOR THE ATOMIC ENERGY COMMISSION

Original Signed

Karl R. Goller, Assistant Director
for Operating Reactors
Directorate of Licensing

Attachment:
Change No. 17
to Technical Specifications

Date of Issuance: NOV 26 1974



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

FLORIDA POWER AND LIGHT COMPANY

DOCKET NO. 50-251

TURKEY POINT NUCLEAR GENERATING UNIT

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 4
License No. DPR-41

1. The Atomic Energy Commission (the Commission) has found that:
 - A. The application for amendment by Florida Power and Light Company (the licensee) dated November 5, 1974, 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. Prior public notice of this amendment is not required since the amendment does not involve a significant hazards consideration.
2. Accordingly, the license is amended by a change 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

The Technical Specifications contained in Appendices A and B, as revised, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications, as revised by issued changes thereto through Change No. 17."

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

FOR THE ATOMIC ENERGY COMMISSION

Original Signed

Karl R. Goller, Assistant Director
for Operating Reactors
Directorate of Licensing

Attachment:
Change No. 17
to Technical Specifications

Date of Issuance: NOV 26 1974

ATTACHMENT TO LICENSE AMENDMENTS NO. 5 AND NO. 4
CHANGE NO. 17 TO THE TECHNICAL SPECIFICATIONS
FACILITY OPERATING LICENSES NO. DPR-31 AND NO. DPR-41
FLORIDA POWER AND LIGHT COMPANY
TURKEY POINT NUCLEAR GENERATING UNITS 3 AND 4
DOCKETS NOS. 50-250 AND 50-251

Revise Appendix A as follows: Replace page 1-6 and Figures 2.1-1 and 2.1-2 with the attached pages.

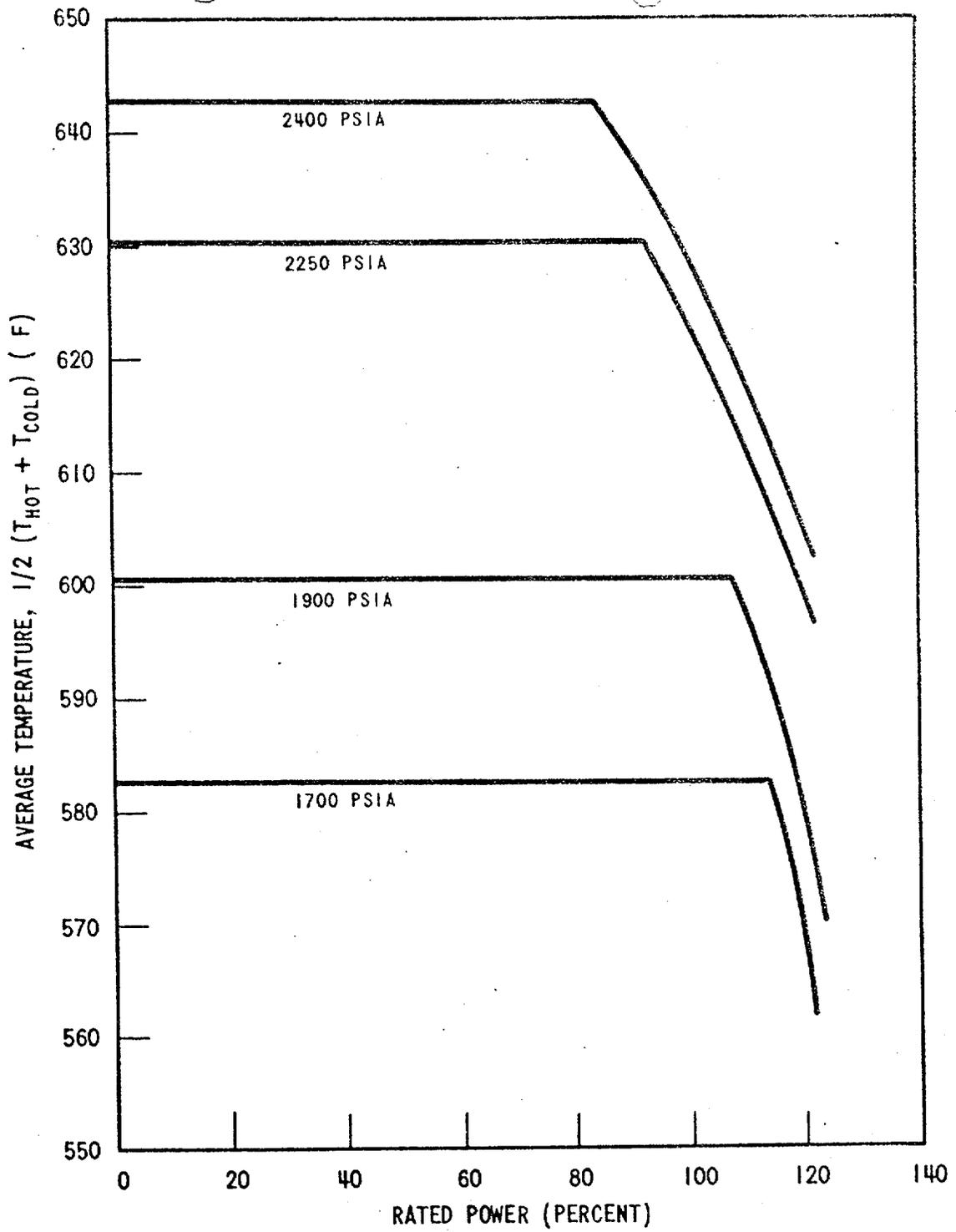


Figure 2.1-1. Reactor Core Thermal and Hydraulic Safety Limits, Three Loop Operation

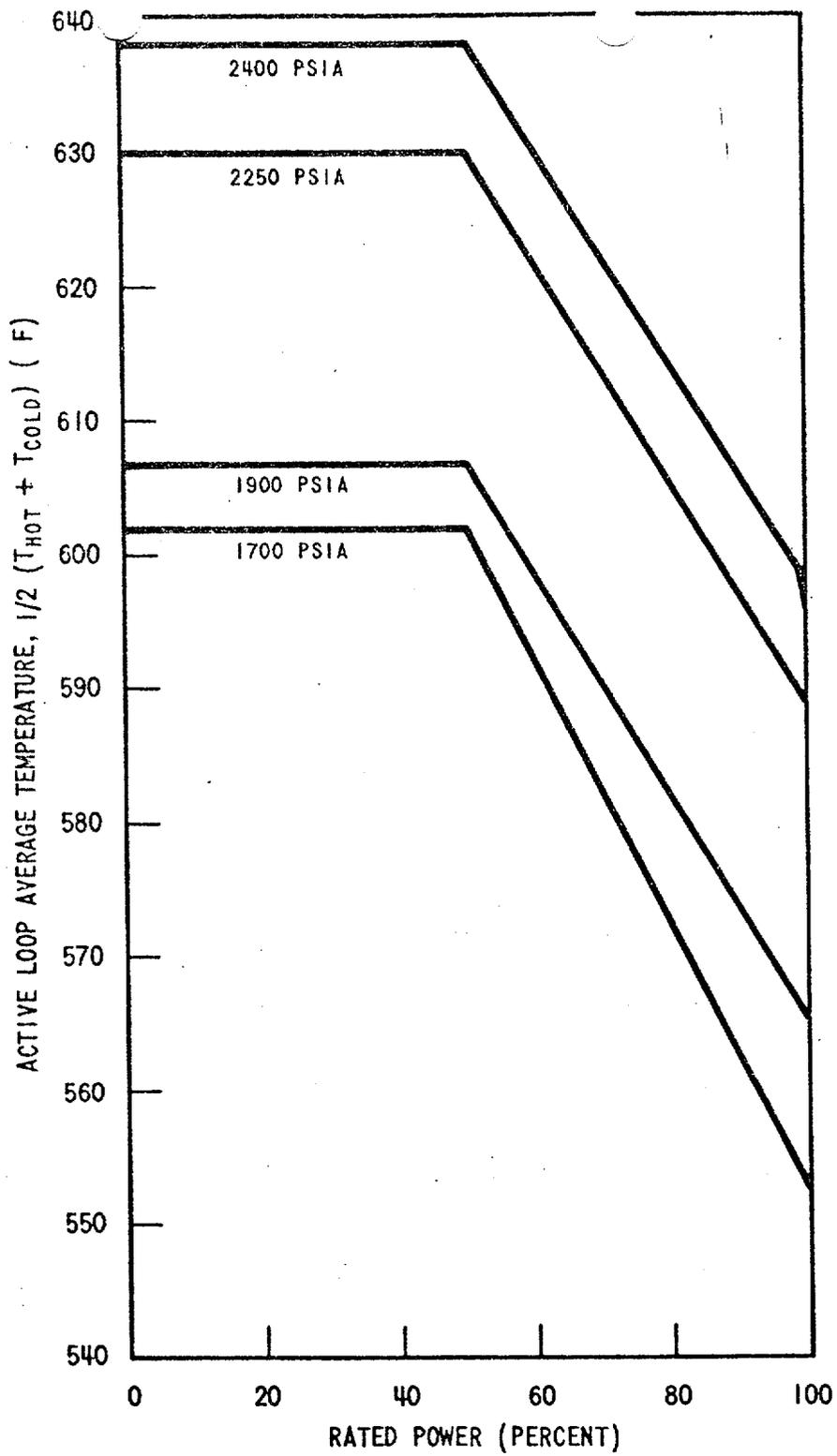


Figure 2.1-2. Reactor Core Thermal and Hydraulic Safety Limits, Two Loop Operation

1.15 INTERIM LIMITS

Limitations are imposed upon reactor core power and power distribution beyond previously established design bases consistent with interim bases for core cooling analysis established by the AEC in 1971 and bases for the effects of densification established in November, 1972. Interim power of the reactor core is limited to the values determined in accordance with specification 3.2. Interim power in MW_t equals $N \times 2200$, where N is determined in accordance with Section 6.c. of specification 3.2. The fuel residence time for Unit 3 shall be limited to 11,600 effective full power hours (EFPH) under low pressure operating conditions. The fuel residence time for Unit 4, Cycle 1 shall be limited to 24,500 EFPH under low pressure operating conditions.

17

1.16 LOW POWER PHYSICS TESTS

Low power physics tests are tests below a nominal 5% of rated power which measure fundamental characteristics of the reactor core and related instrumentation.



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

SAFETY EVALUATION BY THE DIRECTORATE OF LICENSING
SUPPORTING AMENDMENT NO. 5 TO LICENSE NO. DPR-31, AND
AMENDMENT NO. 4 TO LICENSE NO. DPR-41
(CHANGE NO. 17 TO TECHNICAL SPECIFICATIONS)
FLORIDA POWER AND LIGHT COMPANY
TURKEY POINT NUCLEAR GENERATING UNITS 3 AND 4
DOCKETS NOS. 50-250 AND 50-251

Introduction

By letters dated October 24 and 30, 1974, Florida Power and Light Company (FPL) proposed changes in the Facility Operating Licenses DPR-31 and DPR-41 for Turkey Point Nuclear Generating Units 3 and 4. FPL requested the allowable Unit 3 fuel residence time (the minimum predicted time to clad flattening) be increased to allow Unit 3 to operate through fuel Cycle 2. To justify the requested fuel residence time extension, FPL used a revised analytical model to predict the minimum time to clad flattening. This revised model is presently under review by the Commission. Because of the nature of the modifications in the revised model, a notice has been issued stating the Commission is considering FPL's requests of October 24 and 30, 1974.

In order to allow Unit 3 to return to power during the period when we are considering FPL's October 24 and 30, 1974 submittals, FPL requested on November 5, 1974, that the present fuel residence limit be applied during the initial portion of Cycle 2. This request will allow continued use of a specified number of Cycle 1 fuel assemblies during Cycle 2 until the presently specified fuel residence limit is reached. The present fuel assembly exposure at the end of Cycle 1 for all regions in Unit 3 is 10,150 effective full power hours (EFPH), 1,450 EFPH less than the Technical Specification Limit of 11,600 EFPH.

Evaluation

The Unit 3, Cycle 1 fuel residence limit of 11,600 EFPH is the analytically determined predicted minimum time to clad flattening for Region 3 fuel assemblies assuming continued reactor operation at 1900 psia. The minimum time to clad flattening for other fuel assemblies for both Cycle 1 and Cycle 2 will exceed the time for Region 3 fuel assemblies because of higher initial fuel rod internal pressure in these other assemblies. Accordingly, Region 3 will remain the region with the most limiting predicted time to clad flattening through Cycle 2 as it was through Cycle 1.

The Unit 3 core loading for Cycle 2 will contain: one Region 1 assembly, 52 Region 2 assemblies, 52 Region 3 assemblies and 52 Region 4 assemblies. The 52 Region 4 assemblies are unirradiated and will replace 52 Region 1 assemblies which were in the reactor throughout Cycle 1. The Region 4 fuel assemblies have the same physical design as the Region 1 assemblies they replace, with the exception of two assemblies which have removable fuel rods. The use of removable fuel rod assemblies is not considered a significant departure from design. FPL has compared the design parameters for the four fuel regions and the pertinent core physics parameters for Cycle 1 and Cycle 2. We have reviewed these comparisons and have concluded that no significant differences exist between the two core loadings and that the continued use of a specified number of Cycle 1 fuel assemblies up to the previously reviewed and approved fuel residence limit of 11,600 EFPH is acceptable.

FPL has reviewed the accidents covered in the Final Safety Analysis Report for Turkey Point Nuclear Generating Units 3 and 4 and has concluded that the Cycle 2 core loading will not make the consequences of these accidents more severe than previously reported. We agree with this conclusion. Since clad flattening is predicted not to occur and there is no significant differences between the core loading of Cycle 1 and Cycle 2, the results and conclusions of previous safety evaluations and previously approved operating limits, now in effect, remain unchanged by the application of the present fuel residence limit to the initial portion of Cycle 2.

Inasmuch as the staff has previously reviewed the fuel residence time and found it to be reasonable with respect to clad flattening, and since this action does not involve a change of operating limits, nor will it reduce the margin of safety or increase the risk or consequences of an accident, it does not involve a significant hazards consideration.

In order to make the present fuel residence limit applicable to Cycle 2, the references to Cycle 1 have been removed from the Technical Specifications figures which define core thermal and hydraulic safety limits for two loop and three loop operation.

Conclusion

We have concluded, based on the considerations discussed above, that:
(1) because the change does not involve a significant increase in the probability or consequences of accidents previously considered and does not

involve a significant decrease in a safety margin, the change does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of these amendments will not be inimical to the common defense and security or to the health and safety of the public.

Original Signed

D. M. Elliott
Operating Reactors Branch #3
Directorate of Licensing

Original Signed

George Lear, Chief
Operating Reactors Branch #3
Directorate of Licensing

Date: NOV 26 1974

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKETS NOS. 50-250 AND 50-251

FLORIDA POWER AND LIGHT COMPANY

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY OPERATING LICENSES

Notice is hereby given that the U.S. Atomic Energy Commission (the Commission) has issued Amendments No. 5 and No. 4 respectively, to Facility Operating Licenses Nos. DPR-31 and DPR-41 issued to Florida Power and Light Company which revised the Technical Specifications for operation of the Turkey Point Nuclear Generating Units 3 and 4, located in Dade County, Florida. The amendments are effective as of the date of issuance.

These amendments apply the present Unit 3 Cycle 1 fuel residence limit to the initial portion of Cycle 2, thus making it possible for Unit 3 to return to operation while the Commission is considering the issuance of further amendments as noticed in the FEDERAL REGISTER on November 12, 1974 (39 FR 39902). The operating limits for Unit 4 set forth in its Technical Specifications remain unchanged although the Technical Specifications have been modified to reflect the revisions to the Unit 3 Technical Specifications.

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.

For further details with respect to this action, see (1) the application for amendments dated November 5, 1974, (2) Amendment No. 5 to License No. DPR-31 and Amendment No. 4 to License No. DPR-41, with any attachments, 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, NW, Washington, D. C., and at the Lily Lawrence Row Public Library, 212 NW First Avenue, Homestead, Florida.

A copy of items (2) and (3) may be obtained upon request addressed to the U.S. Atomic Energy Commission, Washington, D. C. 20545, Attention: Deputy Director for Reactor Projects, Directorate of Licensing - Regulation.

Dated at Bethesda, Maryland, this 26th day of November, 1974.

FOR THE ATOMIC ENERGY COMMISSION

Original Signed

George Lear, Chief
Operating Reactors Branch #3
Directorate of Licensing