

December 4, 2001

Mr. D. N. Morey  
Vice President - Farley Project  
Southern Nuclear Operating  
Company, Inc.  
Post Office Box 1295  
Birmingham, Alabama 35201-1295

SUBJECT: JOSEPH M. FARLEY NUCLEAR PLANT, UNITS 1 AND 2 RE: ISSUANCE OF  
AMENDMENTS (TAC NOS. MB1906 AND MB1907)

Dear Mr. Morey:

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 151 to Facility Operating License No. NPF-2 and Amendment No. 143 to Facility Operating License No. NPF-8 for the Joseph M. Farley Nuclear Plant, Units 1 and 2. The amendments are in response to your application dated May 3, 2001.

The amendments remove several cycle-specific parameter limits from the Technical Specifications (TS) and associated Bases, and move them to the Core Operating Limits Report (COLR). The changes are based on the NRC guidance provided in Generic Letter (GL) 88-16 "Removal of Cycle-specific Parameter Limits from Technical Specifications," and the Westinghouse Owners Group developed, and NRC approved, generic COLR license amendment request package (WCAP-14483-A), "Generic Methodology for Expanded Core Operating Limits Report." In addition, the amendments add a reactor coolant system minimum flow limit to the TS based on the NRC approved elbow tap flow measurement methodology of WCAP-14750-P-A Revision 1, "RCS Flow Verification Using Elbow Taps at Westinghouse 3-Loop PWRs." Furthermore, a previously omitted reference to the Refueling Boron Concentration is added to the list of contents of the COLR in TS 5.6.5.

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

Sincerely,

/RA/

Frank Rinaldi, Project Manager, Section 1  
Project Directorate II  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. 50-348 and 50-364

Enclosures:

1. Amendment No. 151 to NPF-2
2. Amendment No. 143 to NPF-8
3. Safety Evaluation

cc w/encls: See next page

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SOUTHERN NUCLEAR OPERATING COMPANY, INC.

ALABAMA POWER COMPANY

DOCKET NO. 50-348

JOSEPH M. FARLEY NUCLEAR PLANT, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 151  
License No. NPF-2

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Southern Nuclear Operating Company, Inc. (Southern Nuclear), dated May 3, 2001, 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 license 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 2.C.(2) of Facility Operating License No. NPF-2 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 151 , are hereby incorporated in the license. Southern Nuclear shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of its date of issuance and shall be implemented within 30 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

*/RA/*

Richard J. Laufer, Acting Chief, Section 1  
Project Directorate II  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: December 4, 2001

ATTACHMENT TO LICENSE AMENDMENT NO. 151

TO FACILITY OPERATING LICENSE NO. NPF-2

DOCKET NO. 50-348

ATTACHMENT TO LICENSE AMENDMENT NO. 143

TO FACILITY OPERATING LICENSE NO. NPF-8

DOCKET NO. 50-364

Replace the following pages of the Appendix A Technical Specifications and associated Bases with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

<u>Remove</u>	<u>Insert</u>
2.0-1	2.0-1
2.0-2	-
3.3.1-20	3.3.1-20
3.3.1-21	3.3.1-21
3.4.1-1	3.4.1-1
3.4.1-2	3.4.1-2
5.6-2	5.6-2
5.6-3	5.6-3
5.6-4	5.6-4
-----	5.6-5
-----	5.6-6
B 2.1.1-2	B 2.1.1-2
B 2.1.1-3	B 2.1.1-3
B 2.1.1-4	B 2.1.1-4
B 3.4.1-2	B 3.4.1-2
B 3.4.1-3	B 3.4.1-3

SOUTHERN NUCLEAR OPERATING COMPANY, INC.

ALABAMA POWER COMPANY

DOCKET NO. 50-364

JOSEPH M. FARLEY NUCLEAR PLANT, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 143  
License No. NPF-8

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Southern Nuclear Operating Company, Inc. (Southern Nuclear), dated May 3, 2001, 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 license 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 2.C.(2) of Facility Operating License No. NPF-8 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 143 , are hereby incorporated in the license. Southern Nuclear shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of its date of issuance and shall be implemented within 30 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

**/RA/**

Richard J. Laufer, Acting Chief, Section 1  
Project Directorate II  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: December 4, 2001



SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 151 TO FACILITY OPERATING LICENSE NO. NPF-2  
AND AMENDMENT NO. 143 TO FACILITY OPERATING LICENSE NO. NPF-8  
SOUTHERN NUCLEAR OPERATING COMPANY, INC., ET AL.  
JOSEPH M. FARLEY NUCLEAR PLANT, UNITS 1 AND 2  
DOCKET NOS. 50-348 AND 50-364

## 1.0 INTRODUCTION

By letter dated May 3, 2001, Southern Nuclear Operating Company (SNC), the licensee for the Farley Nuclear Plant (FNP), Unit 1 and Unit 2, submitted information and requested an amendment to the operating licenses of FNP, Unit 1 (NPF-2) and Unit 2, (NPF-8). The proposed amendment would incorporate changes to the FNP, Units 1 and 2 Technical Specifications (TS). SNC proposes to remove several cycle-specific parameter limits from the TS and to move them to the Core Operating Limits Report (COLR). The changes are based on the NRC guidance provided in Generic Letter 88-16 "Removal of Cycle-specific Parameter Limits from Technical Specifications" (Ref. 1), and the Westinghouse Owners Group (WOG) developed, and NRC approved, generic COLR license amendment request package (WCAP-14483-A), "Generic Methodology for Expanded Core Operating Limits Report" (Ref. 2). In addition, SNC also proposes to add a reactor coolant system minimum flow limit to the TS based on the NRC approved elbow tap flow measurement methodology of WCAP-14750-P-A, Revision 1, "RCS Flow Verification Using Elbow Taps at Westinghouse 3-Loop PWRs" (Ref. 3). TS changes are proposed to reflect the relocation of the parameter limits to the COLR. Furthermore, a previously omitted reference to the Refueling Boron Concentration is proposed to be added to the list of contents of the COLR in the TS.

## 2.0 EVALUATION

The proposed TS revisions, that relocate the cycle-specific reactor coolant system (RCS) related TS parameter limits to the COLR, requested by the licensee are:

- a) Revising TS 2.1, "Safety Limits," and the associated bases to replace Figure 2.1.1-1 with the specific requirements regarding the safety limits.
- b) Revising TS 3.3.1, "Reactor Trip System Instrumentation," and the associated bases to relocate the overtemperature  $\Delta T$  (OT $\Delta T$ ) and overpower  $\Delta T$  (OP $\Delta T$ ) setpoint parameter values to the COLR.

- c) Revising TS 3.4.1 "RCS Pressure, Temperature, and Flow Departure from Nucleate Boiling (DNB) Limits" to relocate the pressurizer pressure, RCS average temperature and RCS flow values to the COLR.

These proposed revisions to the TS are consistent with NRC guidance (Ref. 1), and are specific applications of the generic methodology for expanded core operating limits reports approved by NRC (Ref. 2).

The proposed revision to TS 3.4.1 that adds a RCS flow surveillance verification method based on RCS cold-leg elbow taps to measure RCS flow, together with the introduction of an associated minimum flow limit for this method, is consistent with the NRC approved methodology (Ref. 3). The reporting requirements - TS 5.6.5 - are revised to reflect the above changes in the TS as required by References 2 and 3.

The proposed revision to TS 5.6.5 to add Refueling Boron Concentration to the list of contents and the COLR is an administrative change. This addition corrects the omission of a reference. It has no impact on the content of the COLR and does not affect any TS limit or requirement.

In the context of above considerations, the staff finds that the proposed TS changes are acceptable, because existing staff guidance in this area has been satisfied and NRC approved methodologies have been applied. There is reasonable assurance that the facility will operate within the acceptance criteria of the updated final safety analysis report and the health and safety of the public will not be endangered.

### 3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the State of Alabama official was notified of the proposed issuance of the amendments. The State official had no comments.

### 4.0 ENVIRONMENTAL CONSIDERATION

The amendments relate to changes in recordkeeping, reporting, or administrative procedures or requirements. 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 (66 FR 55024). Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(10). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the 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.

## 6.0 REFERENCES

1. NRC Generic Letter 88-16, "Guidance for Technical Specification Changes for Cycle-Specific Parameter Limits," October 4, 1988.
2. WCAP-14483-A, "Generic Methodology for Expanded Core Operating Limits Report," Westinghouse Energy Systems, January 19, 1999.
3. WCAP-14750-P-A, "RCS Flow Verification Using Elbow Taps at Westinghouse 3-Loop PWRs," Westinghouse Electric Company LLC, September, 1999.

Principal Contributor: Yuri Orechwa

Date: December 4, 2001

Joseph M. Farley Nuclear Plant

cc:

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