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 OI&E (5)  
 G. Deegan (4)  
 B. Scharf (10)  
 J. Wetmore  
 ACRS (10)

Clare Miles  
 R. Diggs  
 R. Ballard  
 Chairman, ASLAB

OCT 20 1981

Docket No. 50-364

Mr. F. L. Clayton  
 Senior Vice President  
 Alabama Power Company  
 Post Office Box 2641  
 Birmingham, Alabama 35291



Dear Mr. Clayton:

The Commission has issued the enclosed Amendment No. 9 to Facility Operating License No. NPF-8 for the Joseph M. Farley Nuclear Plant, Unit No. 2. The amendment consists of changes to the License Conditions in response to your application transmitted by letter dated September 16, 1981.

The amendment modified License Condition 2.C.(9)(b) relating to tests of natural circulation cooldown with boron mixing. The change allows test performance at the next shutdown of sufficient time duration, or analyses of tests at other plants, if applicable to Farley 2, but in any case not later than prior to start-up following the first refueling outage.

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

Sincerely,

Original Signed By:

Edward A. Reeves, Project Manager  
 Operating Reactors Branch No. 1  
 Division of Licensing

Enclosures:

1. Amendment No. 9 to NPF-8
2. Safety Evaluation
3. Notice of Issuance

cc w/enclosures:  
 See next page

*OP*

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SEE PREVIOUS NRC FORM 318 FOR PREVIOUS CONCURRENCES\*

OFFICE	ORB 1	ORB 1	ORB 1	AD:OR*	OELD		
SURNAME	CParrish	EReeves/rs	SVarga	TNovak	OSuranson		
DATE	10/13/81	10/13/81	10/13/81	10/9/81	10/15/81		

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The amendment modifies License Condition 2.C.(9)(b) relating to tests of natural circulation cooldown with boron mixing. The change allows test performance or analyses of tests at other plants, if applicable to Farley 2, not later than prior to startup following the first refueling outage.

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Sincerely,

Edward A. Reeves, Project Manager  
Operating Reactors Branch No. 1  
Division of Licensing

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See next page

*NOT for ER*

OFFICE	ORB 1	ORB 1	ORB 1	AD-OR	OELD		
SURNAME	C. Parrish	E. Reeves/rs	S. Scharf	T. Novak			
DATE	9/20/81	9/30/81	9/30/81	10/9/81			

Mr. F. L. Clayton  
Alabama Power Company

OCT 20 1981

cc: Mr. W. O. Whitt  
Executive Vice President  
Alabama Power Company  
Post Office Box 2641  
Birmingham, Alabama 35291

Ruble A. Thomas, Vice President  
Southern Company Services, Inc.  
Post Office Box 2625  
Birmingham, Alabama 35202

George F. Trowbridge, Esquire  
Shaw, Pittman, Potts and Trowbridge  
1800 M Street, N.W.  
Washington, D. C. 20036

Chairman  
Houston County Commission  
Dothan, Alabama 36301

Mr. Robert A. Buettner, Esquire  
Balch, Bingham, Baker, Hawthorne,  
Williams and Ward  
Post Office Box 306  
Birmingham, Alabama 35201

George S. Houston Memorial Library  
212 W. Burdeshaw Street  
Dothan, Alabama 36303

Resident Inspector  
U. S. Nuclear Regulatory Commission  
Post Office Box 24-Route 2  
Columbia, Alabama 36319

State Department of Public Health  
ATTN: State Health Officer  
State Office Building  
Montgomery, Alabama 36104

Regional Radiation Representatives  
EPA Region IV  
345 Courtland Street, N.E.  
Atlanta, Georgia 30308



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

ALABAMA POWER COMPANY

DOCKET NO. 50-364

JOSEPH M. FARLEY NUCLEAR PLANT, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 9  
License No. NPF-8

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Alabama Power Company (the licensee) dated September 16, 1981, 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.

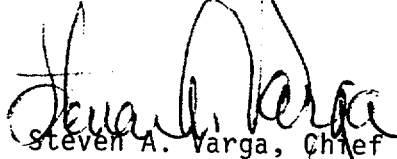
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2. Accordingly, the license is amended by changes to the License Conditions and paragraph 2.C.(9)(b) of Facility Operating License No. NPF-8 is hereby amended to read as follows:

(b) After operation for 25,000 MW(e) days and at its next shutdown of sufficient time duration but in any case no later than prior to the startup following the first refueling outage, results of a test of natural circulation cooldown with boron mixing shall be submitted to the NRC. However, this license condition may be satisfied in the same time frame by the licensee's providing analyses to show that test results of such test performance at other plants are applicable to Farley 2.

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

FOR THE NUCLEAR REGULATORY COMMISSION



Steven A. Varga, Chief  
Operating Reactors Branch No. 1  
Division of Licensing

Date of Issuance: OCT 20 1981



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 9 TO FACILITY OPERATING LICENSE NO. NPF-8

ALABAMA POWER COMPANY

JOSEPH M. FARLEY NUCLEAR PLANT, UNIT NO. 2

DOCKET NO. 50-364

Introduction

Our Safety Evaluation Report (SER) Supplement 5, issued in March 1981 discusses the Residual Heat Removal System (RHR) in Section 6.5. The SER describes the capability of the RHR System at Farley Nuclear Plant in meeting Branch Technical Position RSB 5-1, "Design Requirements of the Residual Heat Removal Systems." This position requires that a natural circulation test with supporting analysis be conducted to demonstrate the ability to cool down and depressurize the plant and to demonstrate that boron mixing is sufficient under such circumstances. On the basis of the SER, the Operating License No. NPF-8 was conditioned in Section 2.C(9) to require all tests relating to natural circulation to be done prior to exceeding 5 percent power except for the boron mixing test. Those tests required prior to exceeding 5 percent power are completed. The natural circulation cooldown with boron mixing test results were scheduled to be done within 60 days after operation for 25,000 MW(e)-days. By letter dated September 16, 1981, Alabama Power Company (APCo), the licensee, requested deletion of this license condition. Our evaluation of the request follows.

Discussion and Evaluation

APCo advises that the test has not been conducted yet and that the 60-day time interval after operation for 25,000 MW(e)-days will expire about October 13, 1981. As indicated in the Farley Unit 2 SER Supplement 5, this test is not necessary for first cycle operation of Farley Unit 2. The 60-day time interval after operation for 25,000 MW(e) days was selected as a time period during which it was likely that the plant would be shut down and the test performed. However, with the loss of Unit 1 for an extended period of time due to a fault in the main turbine generator, a convenient opportunity did not present itself to perform this test and the licensee has requested deletion of this requirement.

In addition, the licensee has confirmed that existing Emergency Operating Procedure "EOP-7, Loss of All AC Power," include a section on natural-circulation cooldown with boron mixing and that the operators have been trained on the simulator for this operation.

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Based on the evaluation in the Farley Unit 2 SER Supplement 5 and the discussion above, we conclude that while we cannot concur with deletion of this test requirement, deferral of this test until the first refueling shutdown is acceptable. Accordingly, we will require the licensee to submit the test results of the natural circulation tests with boron mixing prior to startup following the first refueling.

#### Environmental Consideration

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR §51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

#### Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the amendment 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 amendment 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 this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: OCT 20 1981

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-364ALABAMA POWER COMPANYNOTICE OF ISSUANCE OF AMENDMENT TO FACILITY  
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 9 to Facility Operating License No. NPF-8 issued to Alabama Power Company (the licensee), which revised a License Condition for operation of the Joseph M. Farley Nuclear Plant, Unit No. 2 (the facility) located in Houston County, Alabama. The amendment is effective as of the date of issuance.

The amendment modified License Condition 2.C.(9)(b) relating to tests of natural circulation cooldown with boron mixing. The change allows test performance at the next shutdown of sufficient duration, or analyses of tests at other plants if applicable to Farley 2, but in any case no later than prior to the startup following the first refueling outage.

The application for the amendment 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 amendment. Prior public notice of this amendment was not required since this amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of this amendment 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 this amendment.

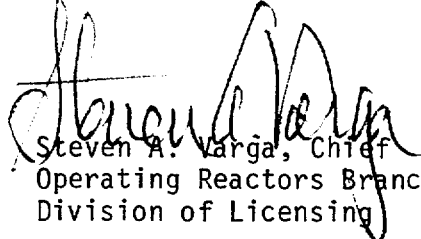


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For further details with respect to this action, see (1) the application for amendment dated September 16, 1981, (2) Amendment No. 9 to License No. NPF-8, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. and at the George S. Houston Memorial Library, 212 W. Burdeshaw Street, Dothan, Alabama 36303. 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 20th day of October 1981.

FOR THE NUCLEAR REGULATORY COMMISSION

  
Steven A. Varga, Chief  
Operating Reactors Branch No. 1  
Division of Licensing