

October 17, 1984

Docket Nos. 50-348  
and 50-364

Mr. R. P. McDonald  
Senior Vice President  
Alabama Power Company  
Post Office Box 2641  
Birmingham, Alabama 35291

Dear Mr. McDonald:

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The Commission has issued the enclosed Amendment No. 51 to Facility Operating License No. NPF-2 and Amendment No. 42 to NPF-8 for the Joseph M. Farley Nuclear Plant, Unit Nos. 1 and 2, respectively. The amendments consist of changes to the Technical Specifications in response to your application transmitted by letter dated August 17, 1984.

The amendments delete the words "during shutdown" in Technical Specification 4.7.1.2.2.b.1 to allow scheduling of the surveillance without requiring a plant shutdown on October 10, 1984. The surveillance involves verifying that each automatic valve in the auxiliary feed flow path actuates to its correct position on an automatic pump start signal.

A copy of the related Safety Evaluation is enclosed. A Notice of Issuance will be included in the Commission's next regular monthly Federal Register notice.

Sincerely,

/s/EReeves

Edward A. Reeves, Project Manager  
Operating Reactors Branch #1  
Division of Licensing

Enclosures:

1. Amendment No. 51 to NPF-2
2. Amendment No. 42 to NPF-8
3. Safety Evaluation

cc: w/enclosures  
See next page

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

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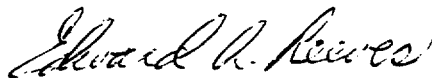
Dear Mr. McDonald:

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Division of Licensing

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3. Safety Evaluation

cc: w/enclosures  
See next page

Mr. R. P. McDonald  
Alabama Power Company

Joseph M. Farley Nuclear Plant  
Units 1 and 2

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

Mr. Louis B. Long, General Manager  
Southern Company Services, Inc.  
Post Office Box 2625  
Birmingham, Alabama 35202

Houston County Commission  
Dothan, Alabama 36301

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

Chairman  
Houston County Commission  
Dothan, Alabama 36301

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

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 Representative  
EPA Region IV  
345 Courtland Street, N.E.  
Atlanta, GA 30308

D. Biard MacGuineas, Esquire  
Volpe, Boskey and Lyons  
918 16th Street, N.W.  
Washington, DC 20006

Charles R. Lowman  
Alabama Electric Corporation  
Post Office Box 550  
Andalusia, Alabama 36420

James P. O'Reilly  
Regional Administrator - Region II  
U.S. Nuclear Regulatory Commission  
101 Marietta Street, Suite 2900  
Atlanta, GA 30303



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

ALABAMA POWER COMPANY

DOCKET NO. 50-348

JOSEPH M. FARLEY NUCLEAR PLANT, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 51  
License No. NPF-2

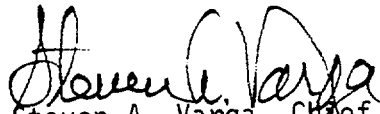
1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Alabama Power Company (the licensee) dated August 17, 1984, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the 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. 51, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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

FOR THE NUCLEAR REGULATORY COMMISSION

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

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: October 17, 1984

ATTACHMENT TO LICENSE AMENDMENT NO. 51

AMENDMENT NO. 51 FACILITY OPERATING LICENSE NO. NPF-2

DOCKET NO. 50-348

Revised Appendix A as follows:

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3/4 7-5

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3/4 7-5

SURVEILLANCE REQUIREMENTS (Continued)

2. Verifying that each automatic valve in the flow path is in the fully open position whenever the auxiliary feedwater system is placed in automatic control or when above 10% RATED THERMAL POWER.
  3. Verifying that the stop check valves 3350A, 3350B, and 3350C are in the open position with the breaker to the valve operators locked open.
- b. At least once per 18 months by:
- Verifying that each automatic valve in the flow path actuates to its correct position on an auto pump start signal.
- c. At least once per 18 months during shutdown by:
1. Verifying that each motor driven pump starts automatically upon receipt of each of the following test signals:
    - a) Safety injection,
    - b) Steam generator water level low-low in any steam generator, and
    - c) Loss of Site Power (LOSP).
  2. Verifying that the steam turbine driven pump starts automatically upon receipt of each of the following test signals:
    - a) Undervoltage on 2 out of 3 reactor coolant pump buses, and
    - b) Steam generator water level low-low in two steam generators.
  3. Verifying that the turbine-driven auxiliary feedwater pump steam admission valves Q1N12V001A-A and Q1N12V001B-B will open when air is supplied from their respective air accumulators.
- d. The auxiliary feedwater system shall be demonstrated OPERABLE prior to entry into MODE 2 following each COLD SHUTDOWN by performing a flow test to verify the normal flow path from the emergency condensate storage tank through each auxiliary pump to its associated steam generator. The provisions of Specification 4.0.4 are not applicable for entry into MODE 3.



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. 42  
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 August 17, 1984, 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, as amended, the provisions of the Act, and the 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:

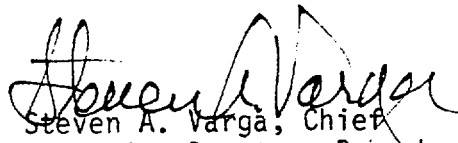


(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 42, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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

FOR THE NUCLEAR REGULATORY COMMISSION

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

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: October 17, 1984

ATTACHMENT TO LICENSE AMENDMENT NO. 42

AMENDMENT NO. 42 FACILITY OPERATING LICENSE NO. NPF-8

DOCKET NO. 50-364

Revised Appendix A as follows:

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3/4 7-5

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SURVEILLANCE REQUIREMENTS (Continued)

2. Verifying that each automatic valve in the flow path is in the fully open position whenever the auxiliary feedwater system is placed in automatic control or when above 10% RATED THERMAL POWER.
  3. Verifying that the stop check valves 3350A, 3350B, and 3350C are in the open position with the breaker to the valve operators locked open.
- b. At least once per 18 months by:
- Verifying that each automatic valve in the flow path actuates to its correct position on an auto pump start signal.
- c. At least once per 18 months during shutdown by:
1. Verifying that each motor driven pump starts automatically upon receipt of each of the following test signals:
    - a) Safety injection,
    - b) Steam generator water level low-low in any steam generator, and
    - c) Loss of Site Power (LOSP).
  2. Verifying that the steam turbine driven pump starts automatically upon receipt of each of the following test signals:
    - a) Undervoltage on 2 out of 3 reactor coolant pump buses, and
    - b) Steam generator water level low-low in two steam generators.
  3. Verifying that the turbine-driven auxiliary feedwater pump steam admission valves Q2N12V001A-A and Q2N12V001B-B will open when air is supplied from their respective air accumulators.
- d. The auxiliary feedwater system shall be demonstrated OPERABLE prior to entry into MODE 2 following each COLD SHUTDOWN by performing a flow test to verify the normal flow path from the emergency condensate storage tank through each auxiliary pump to its associated steam generator. The provisions of Specification 4.0.4 are not applicable for entry into MODE 3.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 51 TO FACILITY OPERATING LICENSE NO. NPF-2  
AND AMENDMENT NO. 42 TO FACILITY OPERATING LICENSE NO. NPF-8

ALABAMA POWER COMPANY

JOSEPH M. FARLEY NUCLEAR PLANT, UNIT NOS. 1 AND 2

DOCKET NOS. 50-348 AND 50-364

INTRODUCTION

By letter dated August 17, 1984, Alabama Power Company (the licensee) requested a change to Technical Specification surveillance requirements for the auxiliary feedwater system. Specification 4.7.1.2.2 sets forth surveillance requirements to demonstrate that each feedwater pump is operable including the positioning of automatic valves in the flow path to each steam generator. As a consequence of subsequent changes, the auxiliary feedwater control valves were modified from normally closed to normally open. Due to an administrative oversight, these valves were not placed in a closed position prior to the previous surveillance test to verify the automatic opening feature of these valves. The Technical Specification stipulates a surveillance frequency of 18 months with a grace period of plus 25% or 4.5 months as the time limit for which operability may be assumed based on performance of the surveillance test. If the surveillance test is not repeated prior to the expiration of this time limit, a limiting condition for continued plant operation would be exceeded.

The licensee notes that the surveillance requirements are specific in that it is stipulated that the tests are to be conducted during shutdown at

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the frequency of at least once per 18 months. However, the licensee has determined that the surveillance test could be performed during plant operation. Therefore, the licensee has proposed that the plant Technical Specification be modified deleting the requirement that this surveillance test must be performed during plant shut down. This change would then allow the test to be performed during plant operation and negate the necessity of a plant shutdown for the sole purpose of satisfying the surveillance requirement.

#### EVALUATION

Surveillance tests to demonstrate the operability of the auxiliary feed-water pumps are included under specification 4.7.1.2.2. Item b. identifies four separate surveillance tests to be performed at least once per 18 months during plant shutdown. Item b.1 includes verification that each valve in the flow path actuates to its correct position on an automatic pump start signal. Items b.2, b.3, and b.4 include verification of automatic starting of motor and turbine driver pumps and operability tests of the turbine drive pump steam admission valves when air is supplied from their respective air accumulators. The fact that Item b. notes that these tests are to be conducted during a plant shutdown is more the result of the practicality of desired plant conditions for the conduct of these tests rather than a specific requirement essential to the validity of the test in demonstrating system operability. Further, the frequency of 18 months coincides with normal frequency of plant shutdown for refueling.

The licensee has proposed that the stipulation that testing for item b.1 be modified to eliminate the necessity that the plant be shutdown for the conduct of this test.

#### SAFETY SUMMARY

Since this is an administrative change that does not alter the required test frequency nor impact the validity of the surveillance requirement, we find that the proposed change is acceptable.

#### ENVIRONMENTAL CONSIDERATION

These amendments involve a change in the installation or use of the facilities components located within the restricted areas as defined in 10 CFR 20. The staff has determined that these 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 occupation radiation exposure. The Commission has previously issued a proposed finding that these amendments involve no significant hazards consideration and there has been no public comment on such finding. Accordingly, these amendments meets the eligibility criteria for categorical exclusion set forth in 10 CFR Sec 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.

CONCLUSION

We have 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, and (2) 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.

Dated: October 17, 1984

PRINCIPAL CONTRIBUTOR:

T. Dunning