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Docket No. 50-364

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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. 19 to Facility Operating License No. NPR-8 for the Joseph M. Farley Nuclear Plant, Unit No. 2. The amendment revises License Condition 2.C.(19)(b) in response to your application transmitted by letter dated July 26, 1982.

The amendment extends the time scheduled to complete all modifications for containment overcurrent protection devices in electrical penetration circuits from the first refueling outage until the next extended cold shutdown, but no later than the second refueling outage.

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

Sincerely,

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

Enclosures:

1. Amendment No. 19 to NPF-8
2. Safety Evaluation
3. Notice of Issuance

cc: w/enclosures  
See next page

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DATE	9/14/82	9/15/82	9/21/82	9/18/82	9/22/82	9/22/82	

Mr. F. L. Clayton  
Alabama Power Company

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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. 19  
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 July 26, 1982 and supplemented September 27, 1982, 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 provision 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.

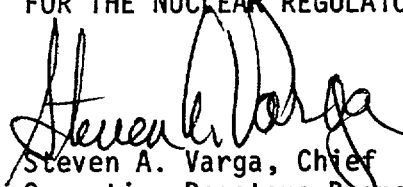
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2. Accordingly, paragraph 2.C.(19)(b) of Facility Operating License No. NPF-8 is amended to read as follows:

- (b) Complete the remaining modifications to the primary and backup circuit protection devices in the containment penetration circuits (which are not completed during the first refueling outage) during the next extended cold shutdown after the first refueling outage, but no later than during the second refueling outage.

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 #1  
Division of Licensing

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: October 25, 1982



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 19 TO FACILITY OPERATING LICENSE NO. NPF-8  
ALABAMA POWER COMPANY  
JOSEPH M. FARLEY NUCLEAR PLANT, UNIT NO. 2  
DOCKET NO. 50-364

Introduction

By letter dated July 26, 1982, supplemented September 27, 1982, Alabama Power Company (APCO) proposed that License Condition 2.C.(19)(b) be modified to extend the time for completion of certain modifications to a later period commensurate with scheduled plant shutdown periods. The modifications, part of which would not be completed, relate to primary and backup circuit protection devices in the containment electrical penetration circuits (referred to as containment overcurrent protection devices [COPD]). Our Safety Evaluation Report, Supplement No. 5, paragraph 7.11, dated March 1981, summarizes the NRC staff findings which resulted in incorporation of License Condition 2.C.(19)(b) for Farley Unit 2. At the time of licensing of Farley Unit 2 (March 31, 1981) the NRC staff and APCO staff agreed that the modifications should be accomplished during the first refueling outage.

Discussion and Evaluation

Modifications currently scheduled to be completed during the first refueling outage are as follows:

- (1) Mini-flow containment vent and purge valve modifications to replace the 18-inch purge valves with 8-inch valves (License Condition 2.C.(17) requirement).
- (2) Fire protection modifications to meet Appendix R (License Condition 2.C.(6) requirement).
- (3) Environmental qualification modifications (License Condition 2.C.(18) requirement).
- (4) Auxiliary feedwater system modifications (License Condition 2.C.(21)(e) requirement).

- (5) Diesel generator lube oil system modifications (License Condition 2.C.(19)(c) requirement).
- (6) Low pressure turbine rotor replacement (License Condition 2.C.(19)(d) requirement).
- (7) Plant shieldings modifications (License Condition 2.C.(21)(c) requirement).
- (8) Other work on Hot Shutdown Panel power supply, fire dampers and IEB 82-02 and IEB 81-03 inspections and work, if required.

The licensee has assessed the effort required to complete all these items. Approximately 70,000 man hours are projected by APCO to complete this work.

The licensee is scheduling completion of the items in accordance with his evaluation of the safety priorities and finds that he can complete all the items without affecting plant availability except for the last item (Containment Overcurrent Protection Devices) which will only be partially completed. An extension of time until the next refueling outage or until a cold shutdown of sufficient duration to complete the work on the COPD is requested.

#### Summary

We find that the licensee has made a good faith effort to prepare for and to accomplish the numerous design changes discussed herein. Approximately one-half of the modifications to the containment electrical penetration circuits are scheduled to be completed during this refueling outage. In addition, by letter of September 27, 1982, APCO has committed to perform surveillance on the circuits (10% of the total circuits) which will not be modified at this time and this 10% testing of protective devices will include at least one representative of each type of protective devices used in circuits yet to be modified. We feel that this action provides added assurance that the existing circuits with one protective device will function as designed. In addition, the probability of a loss-of-coolant-accident, coupled with the short circuit of a penetration conductor and an independent failure of a protective device, occurring simultaneously is highly unlikely. During the operation of similar reactors there have been no failures of containment integrity due to shorts of conductors in electrical containment penetration assemblies. Therefore, we conclude that the extension in time requested by APCO has been justified and is acceptable. We will modify License Condition 2.C.(19)(b) accordingly.

### 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 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 an accident previously evaluated, does not create the possibility of an accident of a type different from any evaluated previously, and does not involve a significant reduction in a margin of safety, 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: October 25, 1982

Primary Contributor:

E. A. Reeves