

DEC 02 1982

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. 21 to Facility Operating License No. NPF-8 for the Joseph M. Farley Nuclear Plant, Unit No. 2. The amendment revises License Condition 2.C.(16) in response to your application transmitted by letter dated October 19, 1982, supplemented by letter dated November 19, 1982.

The amendment extends the time scheduled to complete a modification to one safety-related masonry wall until the second refueling outage or until the NRC staff has accepted the energy balance technique which shows no modification is needed.

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

Sincerely,

ORIGINAL SIGNED

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

Enclosures:

1. Amendment No. 21 to NPF-8
2. Safety Evaluation
3. Notice of Issuance

cc w/enclosures:
See next page

6:15 PM 12/2/82
Telecom NRC (Lainas, Reeves) to
APCO (George) advised of issuance
of this license amendment.
Ed Reeves
Project Manager

6:30 PM 12/2/82
Telecom NRC (Reeves) to Region
2 Duty Officer (Upright) advised
of issuance and that message
was left on resident inspection
recorder.
Ed Reeves
no legal notice or
to no time or
and

8212160568 821202
PDR ADOCK 05000364
P PDR

OFFICE	ORB#1:DL	ORB#1:DL	ORB#1:DL	MEB/DE	ADMOR:DL	D/BL	OELD
SURNAME	CParrish	EReeves:dm	SVarga	FSchaur	GLainas	DEisenhut	DSWANGSON
DATE	12/1/82	12/1/82	12/1/82	12/1/82	12/1/82	12/1/82	12/2/82

Mr. F. L. Clayton
Alabama Power Company

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

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

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Volpe, Boskey and Lyons
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Washington, D.C. 20006

Charles R. Lowman
Alabama Electric Corporation
P.O. Box 550
Andalusia, Alabama 36420

Mr. R. P. McDonald
Vice President - Nuclear Generation
Alabama Power Company
P.O. Box 2641
Birmingham, Alabama 35291

James P. O'Reilly
Regional Administrator - Region II
U. S. Nuclear Regulatory Commission
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303



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. 21
License No. NPF-8

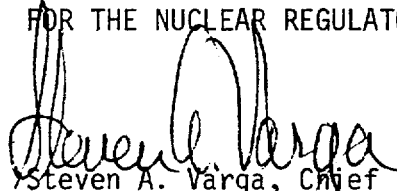
1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Alabama Power Company (the licensee) dated October 19, 1982 and supplemented November 19, 1982, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) 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 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.

2. Accordingly, Facility Operating License No. NPF-8 is hereby amended by replacing License Condition 2.C.(16) with the following paragraph:

(16) Prior to startup following the second refueling, the licensee shall complete modifications for Masonry Wall 2 CBW-34 to meet the NRC staff criteria.

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: December 2, 1982



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 21 TO FACILITY OPERATING LICENSE NO. NPF-8
ALABAMA POWER COMPANY
JOSEPH M. FARLEY NUCLEAR PLANT, UNIT NO. 2
DOCKET NO. 50-364

Introduction and Background

Our Inspection and Enforcement Bulletin (IEB) 80-11 dated May 8, 1980 advised all licensees of problems relating to potential failures of masonry walls which might affect safety-related equipment. We recommended a re-evaluation of all such masonry walls. Although Joseph M. Farley Unit No. 2 was not licensed until March 31, 1981, for full power operation, Alabama Power Company (APCo) by letter dated December 12, 1980, committed to re-evaluate masonry walls on Unit 2.

In addition, Office of IE Report No. 80-26/37 dated October 16, 1980, paragraph 9, for Unit 2 identified "Inadequate Procedure for Preparation of Unit 2 Masonry Wall As-Built Drawings" as Infraction Item 364/80-37-01. APCo subsequently reported (via Licensee Event Report 80-003, letter dated December 23, 1980) their plans to perform a review and to implement corrective action on Unit 2.

Subsequently, APCo performed a design review and made modifications where required as described in letters dated January 15, May 12 and 22, 1981, and April 22, July 8 and August 26, 1982. These letters reported progress and responded to NRC staff concerns relating to the masonry wall repairs and the design criteria used by Bechtel (APCo's design organization). In a July 26, 1982 letter APCo stated that the requirements of Unit 2 License Condition 2.C.(16), relating to masonry walls, have been satisfied. We met with APCo and Bechtel representatives on October 5 and November 1, 1982, to review their design analysis techniques.

Discussion and Evaluation

On October 19, 1982, APCo requested that Unit 2 License Condition 2.C.(16) be deleted. However, after the November 1, 1982 meeting with our staff, APCo revised the October 19, 1982 request by letter dated November 19, 1982. In this letter APCo proposed a revision to License Condition 2.C.(16). The APCo proposal would extend until prior to startup after the second refueling (scheduled in December 1983) modifications to one masonry wall (2 CBW-34) not now meeting NRC's interim criteria. The proposal was conditioned such that modifications would not be made if the NRC staff accepted use of the energy balance technique prior to the modifications being made.

By letter dated December 1, 1982, APCo responded to our concerns relating to a postulated failure of masonry wall, 2 CBW-34. This wall supports cabling for power to the 600 volt motor control center bus 1F. This bus provides control power to portions of control room train A air conditioning. If the wall failed to the extent that power was lost to bus 1F, control room air conditioning would be supplied from train B. If, further, train B were lost, alternate power to the train A bus could be supplied from Unit 1. During the time this transfer takes place, control room habitability would not be of concern because of the relatively short time involved (estimated as a maximum of two hours) and because some cooling could be provided by the independent air conditioning system in the adjacent Technical Support Center communicating with the control room. Sufficient breathing air bottles are also available for two hours. Finally, the units could be brought to hot standby conditions from the hot shutdown panels located in the auxiliary building outside the control room. Based on these considerations APCo considers that the failure of wall 2 CBW-34 would not impede the safe shutdown of the Farley units.

Safety Summary

We have reviewed the licensee's submittals relating to IE Bulletin 80-11. We have met with the licensee on October 5 and November 1, 1982 and discussed the Farley Unit 2 masonry walls in detail. We also reviewed the associated License Condition 2.C.(16) imposed during the licensing of Unit 2 as noted in our Safety Evaluation Report, Supplement No. 5, March 1981, Section 3.11.

Based on our review, we conclude that the licensee has met the staff's acceptance criteria, except for one masonry wall (2 CBW-34). This wall supports wiring for part of only one train of control room heating, ventilation and air conditioning as discussed above. The unit can be brought to hot standby or cold safe shutdown without reliance on this wall. This masonry wall has been shown to have significant seismic resistance capability (in excess of that required to withstand the OBE) using conservative techniques approved by the staff. In addition, the licensee has agreed to additionally reinforce this one wall during the next refueling outage unless the NRC staff approves the energy balance technique for qualifying masonry walls. If this technique is approved by the staff, this wall has already been demonstrated to be acceptable.

We agree with the licensee's request for an extension of one fuel cycle. Therefore, License Condition 2.C.(16) has been modified 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: December 2, 1982

Primary Contributors:

E. A. Reeves

N. Choskshi

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. 21 to Facility Operating License No. NPF-8 issued to Alabama Power Company (the licensee), which revised the license for operation of 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 extends the time scheduled to complete a modification to one safety-related masonry wall until the second refueling outage or until the NRC staff has accepted the energy balance technique which shows no modification is needed.

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.

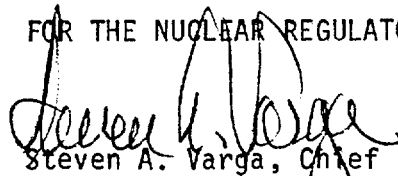
The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

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For further details with respect to this action, see (1) the application for amendment dated October 19, 1982, as supplemented November 19, 1982, (2) Amendment No. 21 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 2nd day of December, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION


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