

NOV 9 1978

Docket No. 50-348

Alabama Power Company
ATTN: Mr. Alan R. Barton
Senior Vice President
Post Office Box 2641
Birmingham, Alabama 35291

DISTRIBUTION

- Docket Files -
- NRC PDR
- LOCAL PDR
- ORB#1 Reading
- VStello
- ASchwencer
- CParrish
- EReeves
- BKGrimes
- GKnighton / *J. Donohue*
- STS Group
- OELD
- OI&E(5)
- BJones(4)

Gentlemen:

The Commission has issued the enclosed Amendment No. 6 to Facility Operating License No. NPF-2 for the Joseph M. Farley Nuclear Plant, Unit No. 1. The amendment consists of changes to the Technical Specifications in response to your application dated October 26, 1978.

This amendment reflects a one-time change which allowed plant startup with the high efficiency particulate air filters in one of two redundant trains of the Penetration Room Filtration Systems to be at 99.93% efficiency instead of at 99.95% efficiency. This change was authorized by our letter dated October 26, 1978.

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

Sincerely,

Original Signed By

A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Enclosures:

1. Amendment No. 6 to NPF-2
2. Safety Evaluation
3. Notice

- BScharf(15)
- JSaltzman
- ACRS(16)
- CMiles, OPA
- DRoss
- RDiggs
- JRBuchanan
- TERA

cc w/encl:
See next page

7811220113

Const. 1
60

OFFICE >	DOR:ORB#1	DOR:EEB	DOR:ORB#1	STS	OELD 92
SURNAME >	EReeves:1b	Gknighton	ASchwencer	DBrinkman	DSWANSON
DATE >	10/31/78	10/2/78	10/9/78	10/3/78	10/7/78

November 9, 1978

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

U.S. Environmental Protection Agency
Region IV Office
ATTN: EIS COORDINATOR
345 Courtland Street, NE.
Atlanta, Georgia 30308

George F. Trowbridge, Esquire
Shaw, Pittman, Potts & Trowbridge
1800 M Street, NW.
Washington, D.C. 20036

George S. Houston Memorial Library
212 W. Vurdeshaw Street
Dothan, Alabama 36301

Chairman
Houston Co. Commission
Dothan, Alabama 36301

John Bingham, Esquire
Balch, Bingham, Baker, Hawthorne,
Williams & Ward
600 North 18th Street
Birmingham, Alabama 35202

Edward H. Keiler, Esquire
Keiler & Buchley
9047 Jefferson Highway
River Ridge, Louisiana 70123

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

Chief, Energy Systems
Analyses Branch (AW-459)
Office of Radiation Programs
U.S. Environmental Protection Agency
Room 645, East Tower
401 M Street, SW.
Washington, D.C. 20460



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. 6
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 October 26, 1978, 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, 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:

7811220118

"(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 6, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications."

3. This license amendment became effective as of October 26, 1978.

FOR THE NUCLEAR REGULATORY COMMISSION



A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Attachment:
Changes to the Technical
Specifications

Date of Issuance: November 9, 1978

ATTACHMENT TO LICENSE AMENDMENT NO. 6

FACILITY OPERATING LICENSE NO. NPF-2

DOCKET NO. 50-348

Replace page 3/4 7-23 of the Appendix "A" Technical Specifications with the enclosed page. The revision is identified by Amendment number and contains a vertical line indicating the area of change. The corresponding overleaf page is also provided to maintain document completeness.

PLANT SYSTEMS

3/4.7.8 ECCS PUMP ROOM EXHAUST AIR FILTRATION (PENETRATION ROOM FILTRATION SYSTEM)

LIMITING CONDITION FOR OPERATION

3.7.8.1 Two independent penetration room filtration systems shall be OPERABLE and aligned to the spent fuel pool room.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

With one penetration room filtration system inoperable, restore the inoperable system to OPERABLE status within 7 days or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours. NOTE: On a one time basis starting on October 26, 1978 and ending at 12:30 pm on November 1, 1978, Specification 3.0.4 does not apply. This allows startup (Mode 2) and power operation (Mode 1) with Train B of the Penetration Room Filtration system operable in the degraded condition as described in Alabama Company's letter dated October 26, 1978.

SURVEILLANCE REQUIREMENTS

4.7.8.1 Each penetration room filtration system shall be demonstrated OPERABLE:

- a. At least once per 31 days on a STAGGERED TEST BASIS by:
 1. Initiating, from the control room, flow through the HEPA filter and charcoal adsorber train and verifying that the train operates for at least 15 minutes.
- b. At least once per 18 months or (1) after any structural maintenance on the HEPA filter or charcoal adsorber housings, or (2) following painting, fire or chemical release in any ventilation zone communication with the system by:
 1. Verifying that with the system operating at a flow rate of 5000 cfm \pm 10% and exhausting through the HEPA filters and charcoal adsorbers, the total bypass flow of the system to the facility vent, including leakage through the system diverting valves, is \leq 1% when the system is tested by admitting cold DOP at the system intake.

PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

2. Verifying that the cleanup system satisfies the in-place testing acceptance criteria and uses the test procedures of Regulatory Position C.5.c and C.5.d of Regulatory Guide 1.52, Revision 1, July 1976, and the system flow rate is 5000 cfm \pm 10%.
 3. Verifying within 31 days after removal that a laboratory analysis of a representative carbon sample obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 1, July 1976, meets the laboratory testing criteria of Regulatory Position C.6.a of Regulatory Guide 1.52, Revision 1, July 1976.
 4. Verifying a system flow rate of 5000 cfm \pm 10% during system operation when tested in accordance with ANSI N510-1975.
- c. After every 720 hours of charcoal adsorber operation by verifying within 31 days after removal that a laboratory analysis of representative carbon sample obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 1, July 1976, meets the laboratory testing criteria of Regulatory Position C.6.a of Regulatory Guide 1.52, Revision 1, July 1976.
- d. At least once per 18 months by:
1. Verifying that the pressure drop across the combined HEPA filters and charcoal adsorber banks is < 6 inches Water Gauge while operating the filter train at a flow rate of 5000 cfm \pm 10%.
 2. Verifying that the filter train starts on a Phase B Actuation Test Signal.
 3. Verifying that the heaters dissipate 25 \pm 2.5 kw when tested in accordance with ANSI N510-1975.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 6 TO FACILITY OPERATING LICENSE NO. NPF-2
ALABAMA POWER COMPANY
JOSEPH M. FARLEY NUCLEAR PLANT, UNIT NO. 1
DOCKET NO. 50-348

INTRODUCTION

By letter dated October 26, 1978, Alabama Power Company (APC) proposed a one-time Technical Specification change to allow startup of Farley Nuclear Plant (FNP), Unit No. 1. Our letter dated October 26, 1978, granted authorization to startup the plant. We noted that a formal amendment was to be forwarded as soon as possible.

DISCUSSION

Based on a review conducted by APC of test results for Train B of the Penetration Room Filtration System (PRFS), APC declared Train B inoperable at 12:30 p.m. on October 25 in accordance with Technical Specification 3.7.8.1. This specification, applicable to operational Modes 1, 2 3 and 4 allows operation for up to 7 days to restore Train B to operable status. However, the plant tripped inadvertently at 11:35 p.m. on October 25 and was maintained in Mode 3 (Hot Standby) pending resolution of the problem.

With the plant tripped and in Mode 3, Technical Specification 3.0.4 precludes changing from Mode 3 (Hot Standby) to Mode 2 (Startup) until Train B of the PRFS is operable. The intent of Specification 3.0.4 is to assure that operation is not initiated with inoperable systems. This is a general requirement, but exceptions are recognized and sometimes found to be acceptable provided startup without the equipment being OPERABLE can be shown not to affect plant safety.

EVALUATION

We have reviewed the APC proposal, the PRFS design, as well as the NRC staff Safety Evaluation Report (NUREG-75/034) dated May 2, 1975, for FNP as it relates to accidents requiring PRFS operability.

7811220123

APC reported that the high efficiency particulate air (HEPA) filters in Train B of the PRFS tested out at 99.93% efficiency. However, 99.95% efficiency must be demonstrated when tested to Specification 4.7.8.1b.2. The HEPA filters are installed in the filtration system to remove airborne particulate matter only; activated charcoal is installed to remove radioiodine in both the elemental and organic form. The activated charcoal section of Train B when tested met all of its applicable Technical Specification requirements. Furthermore, the redundant Train A meets all Technical Specification requirements. The results of the Train A HEPA filters test demonstrated an efficiency in excess of 99.95% (99.98%).

In NUREG 75/034, we assumed that 5% of the total radioiodine from an accident would be in a particulate form and that the HEPA filters would be 99% efficient. The Train B HEPA filter assembly which will be available during startup, has an efficiency in excess of this 99% value. This slightly degraded HEPA filter assembly will not significantly affect plant safety for the brief period of time required to repair it and thus restore Train B to fully OPERABLE status (99.95% HEPA filter efficiency). Therefore, we conclude that one-time operation, until 12:30 p.m. on November 1, 1978, with Train B available but somewhat degraded (99.93% efficiency of its HEPA filter assembly) is acceptable.

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 the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: October 26, 1978

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-348ALABAMA POWER COMPANYNOTICE OF ISSUANCE OF AMENDMENT TO FACILITY
OPERATING LICENSE

The U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 6 to Facility Operating License No. NPF-2, issued to Alabama Power Company (the licensee), which revised Technical Specifications for operation of the Joseph M. Farley Nuclear Plant, Unit No. 1 (the facility) located in Houston County, Alabama. The amendment was effective as of October 26, 1978.

The amendment incorporates a one-time change which expires on November 1, 1978, to allow plant startup with one of two redundant safety-related high efficiency particulate air filters at 99.93% efficiency instead of at 99.95% efficiency.

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 the amendment does not involve a significant hazards consideration.

7811220125

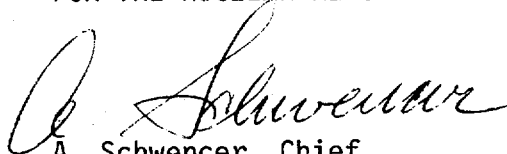
- 2 -

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.

For further details with respect to this action, see (1) the application for amendment dated October 26, 1978, (2) Amendment No. 6 to License No. NPF-2, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission Public Document Room, 1717 H Street, NW., Washington, D.C. and at the George S. Houston Memorial Library, 212 W. Vurdeshaw Street, Dothan, Alabama 36301. 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 Operating Reactors.

Dated at Bethesda, Maryland, this 9th day of November, 1978.

FOR THE NUCLEAR REGULATORY COMMISSION



A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors