

March 8, 1988

Docket Nos. 50-348/364

DISTRIBUTION:  
See attached sheet

Mr. R. P. McDonald  
Senior Vice President  
Alabama Power Company  
Post Office Box 2641  
Birmingham, Alabama 35291-0400

Dear Mr. McDonald:

SUBJECT: ISSUANCE OF AMENDMENT NO. 75 TO FACILITY OPERATING LICENSE NO. NPF-2 AND AMENDMENT NO. 67 TO FACILITY OPERATING LICENSE NO. NPF-8 - JOSEPH M. FARLEY NUCLEAR PLANT, UNITS 1 AND 2, REGARDING THE USE OF HISTORICAL ANNUAL AVERAGE METEOROLOGICAL DATA (TAC NOS. 66777 and 66778)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 75 to Facility Operating License No. NPF-2 and Amendment No. 67 to NPF-8 for the Joseph M. Farley Nuclear Plant, Units 1 and 2. The amendments consist of changes to the Technical Specifications (TS) in response to your submittal dated December 9, 1987.

The amendments change TS 6.9.1.9, Administrative Controls, to amend the Semiannual Radioactive Effluent Release Report requirements to allow the use of historical annual average meteorological data to determine the doses due to the routine release of radioactive gaseous effluents. This is an option that is provided for in NUREG-0133 and is consistent with the TS Bases and the Final Safety Analysis Report. An administrative correction to the spelling of the word "or" is also made in the same paragraph.

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

Sincerely,



Edward A. Reeves, Sr. Project Manager  
Project Directorate II-1  
Division of Reactor Projects I/II

Enclosures:

1. Amendment No. 75 to NPF-2
2. Amendment No. 67 to NPF-8
3. Safety Evaluation

cc: w/enclosures  
See next page

LA PD21:DRPR  
PAnderson  
2/18/88

PM PD21:DRPR  
EReves  
2/18/88

D PD21:DRPR  
EAdensam  
2/19/88

8803140027 880308  
PDR ADOCK 05000348  
P PDR

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 75, 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 and shall be implemented within 30 days of receipt of the amendment.

FOR THE NUCLEAR REGULATORY COMMISSION

Elinor G. Adensam, Director  
Project Directorate II-1  
Division of Reactor Projects I/II

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: March 8, 1988

*PA*  
LA: PD21: DRPR  
PAnderson  
2/18/88

*ER*  
PM: PD21: DRPR  
EReeves  
2/18/88

*LC*  
BS: PRPB: DREP  
LCunningham  
2/19/88

*GL*  
AD: DRPR  
GLainas  
3/12/88

*OGC*  
OGC-B  
2/24/88

*EAdensam*  
D: PD21: DRPR  
EAdensam  
3/12/88

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 67, are hereby incorporated in the license. Alabama Power Company shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of its date of issuance and shall be implemented within 30 days of receipt of the amendment.

FOR THE NUCLEAR REGULATORY COMMISSION

Elinor G. Adensam, Director  
Project Directorate II-1  
Division of Reactor Projects I/II

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: March 8, 1988

LA: PD21: DRPR  
PAnderson  
2/18/88

PM: PD21: DRPR  
EReeves  
2/18/88

BC: PRPB: DRPR  
LCunningham  
2/19/88

AD: DRPR  
GLainas  
3/1/88

OGC: [Signature]  
D: PD21: DRPR  
EAdensam  
2/26/88 3/2/88



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

March 8, 1988

Docket Nos. 50-348/364

Mr. R. P. McDonald  
Senior Vice President  
Alabama Power Company  
Post Office Box 2641  
Birmingham, Alabama 35291-0400

Dear Mr. McDonald:

SUBJECT: ISSUANCE OF AMENDMENT NO. 75 TO FACILITY OPERATING LICENSE NO. NPF-2 AND AMENDMENT NO. 67 TO FACILITY OPERATING LICENSE NO. NPF-8 - JOSEPH M. FARLEY NUCLEAR PLANT, UNITS 1 AND 2, REGARDING THE USE OF HISTORICAL ANNUAL AVERAGE METEOROLOGICAL DATA (TAC NOS. 66777 and 66778)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 75 to Facility Operating License No. NPF-2 and Amendment No. 67 to NPF-8 for the Joseph M. Farley Nuclear Plant, Units 1 and 2. The amendments consist of changes to the Technical Specifications (TS) in response to your submittal dated December 9, 1987.

The amendments change TS 6.9.1.9, Administrative Controls, to amend the Semiannual Radioactive Effluent Release Report requirements to allow the use of historical annual average meteorological data to determine the doses due to the routine release of radioactive gaseous effluents. This is an option that is provided for in NUREG-0133 and is consistent with the TS Bases and the Final Safety Analysis Report. An administrative correction to the spelling of the word "or" is also made in the same paragraph.

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

Sincerely,

A handwritten signature in cursive script that reads "Edward A. Reeves".

Edward A. Reeves, Sr. Project Manager  
Project Directorate II-1  
Division of Reactor Projects I/II

Enclosures:

1. Amendment No. 75 to NPF-2
2. Amendment No. 67 to NPF-8
3. Safety Evaluation

cc: w/enclosures  
See next page

Mr. R. P. McDonald  
Alabama Power Company

Joseph M. Farley Nuclear Plant

cc:

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Executive Vice President  
Alabama Power Company  
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Birmingham, Alabama 35291-0400

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



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

ALABAMA POWER COMPANY

DOCKET NO. 50-348

JOSEPH M. FARLEY NUCLEAR PLANT, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 75  
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 December 9, 1987, 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:

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P PDR

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 75 , 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 and shall be implemented within 30 days of receipt of the amendment.

FOR THE NUCLEAR REGULATORY COMMISSION



Elinor G. Adensam, Director  
Project Directorate II-1  
Division of Reactor Projects I/II

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: March 8, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 75  
TO FACILITY OPERATING LICENSE NO. NPF-2  
DOCKET NO. 50-348

Replace the following page of the Appendix A Technical Specifications with the enclosed page. The revised areas are indicated by marginal lines.

Remove Pages

6-18

Insert Pages

6-18



6.9.1.9 The radioactive effluent release reports shall include a summary of the quantities of radioactive liquid and gaseous effluents and solid waste released from the unit as outlined in Regulatory Guide 1.21, "Measuring, Evaluating, and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Plants," Revision 1, June 1974, with data summarized on a quarterly basis following the format of Appendix B thereof.

The radioactive effluent release report to be submitted 60 days after January 1 of each year shall include an annual summary of hourly meteorological data collected over the previous year. This annual summary may be either in the form of an hour-by-hour listing of wind speed, wind direction, and atmospheric stability, and precipitation (if measured) on magnetic tape, or in the form of joint frequency distributions of wind speed, wind direction, and atmospheric stability. This same report shall include an assessment of the radiation doses due to the radioactive liquid and gaseous effluents released from the unit or station during the previous calendar year. The historical annual average meteorology or the meteorological conditions concurrent with the time of release of radioactive materials in gaseous effluents (as determined by sampling frequency and measurement) shall be used for determining the gaseous pathway doses. The assessment of radiation doses shall be performed in accordance with the OFFSITE DOSE CALCULATION MANUAL (ODCM).

The radioactive effluent release report to be submitted 60 days after January 1 of each year shall also include an assessment of radiation doses to the likely most exposed member of the public from reactor releases and other nearby uranium fuel cycle sources (including doses from primary effluent pathways and direct radiation) for the previous 12 consecutive months to show conformance with 40CFR190, Environmental Radiation Protection Standards for Nuclear Power Operation.

The radioactive effluents release shall include the following information for each type of solid waste shipped offsite during the report period:

- a. Container volume,
- b. Total curie quantity (specify whether determined by measurement or estimate),
- c. Principal radionuclides (specify whether determined by measurement or estimate),
- d. Type of waste (e.g., spent resin, compacted dry waste, evaporator bottoms),



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

ALABAMA POWER COMPANY

DOCKET NO. 50-364

JOSEPH M. FARLEY NUCLEAR PLANT, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 67  
License No. NPF-8

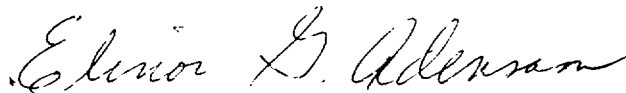
1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Alabama Power Company (the licensee), dated December 9, 1987, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and 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 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.67 , are hereby incorporated in the license. Alabama Power Company shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of its date of issuance and shall be implemented within 30 days of receipt of the amendment.

FOR THE NUCLEAR REGULATORY COMMISSION



Elinor G. Adensam, Director  
Project Directorate II-1  
Division of Reactor Projects I/II

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: March 8, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 67  
TO FACILITY OPERATING LICENSE NO. NPF-8  
DOCKET NO. 50-364

Replace the following page of the Appendix A Technical Specifications with the enclosed page. The revised areas are indicated by marginal lines.

Remove Pages

6-18

Insert Pages

6-18

## ADMINISTRATIVE CONTROLS

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6.9.1.9 The radioactive effluent release reports shall include a summary of the quantities of radioactive liquid and gaseous effluents and solid waste released from the unit as outlined in Regulatory Guide 1.21, "Measuring, Evaluating, and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Plants," Revision 1, June 1974, with data summarized on a quarterly basis following the format of Appendix B thereof.

The radioactive effluent release report to be submitted 60 days after January 1 of each year shall include an annual summary of hourly meteorological data collected over the previous year. This annual summary may be either in the form of an hour-by-hour listing of wind speed, wind direction, and atmospheric stability, and precipitation (if measured) on magnetic tape, or in the form of joint frequency distributions of wind speed, wind direction, and atmospheric stability. This same report shall include an assessment of the radiation doses due to the radioactive liquid and gaseous effluents released from the unit or station during the previous calendar year. The historical annual average meteorology or the meteorological conditions concurrent with the time of release of radioactive materials in gaseous effluents (as determined by sampling frequency and measurement) shall be used for determining the gaseous pathway doses. The assessment of radiation doses shall be performed in accordance with the OFFSITE DOSE CALCULATION MANUAL (ODCM).

The radioactive effluent release report to be submitted 60 days after January 1 of each year shall also include an assessment of radiation doses to the likely most exposed member of the public from reactor releases and other nearby uranium fuel cycle sources (including doses from primary effluent pathways and direct radiation) for the previous 12 consecutive months to show conformance with 40CFR190, Environmental Radiation Protection Standards for Nuclear Power Operation.

The radioactive effluents release shall include the following information for each type of solid waste shipped offsite during the report period:

- a. Container volume,
- b. Total curie quantity (specify whether determined by measurement or estimate),
- c. Principal radionuclides (specify whether determined by measurement or estimate),
- d. Type of waste (e.g., spent resin, compacted dry waste, evaporator bottoms),



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 75 TO FACILITY OPERATING LICENSE NO. NPF-2

AND AMENDMENT NO. 67 TO FACILITY OPERATING LICENSE NO. NPF-8

ALABAMA POWER COMPANY

JOSEPH M. FARLEY NUCLEAR PLANT, UNITS 1 AND 2

DOCKET NOS. 50-348 AND 50-364

1.0 INTRODUCTION

By letter dated December 9, 1987, Alabama Power Company (APCo) submitted a request for changes to the Joseph M. Farley Nuclear Plant, Units 1 and 2 Technical Specifications (TS).

The proposed amendments would change TS 6.9.1.9 to amend the Semiannual Radioactive Effluent Release Report requirements to allow the use of historical annual average meteorological data to determine the gaseous pathway doses due to the routine release of radioactive gaseous effluents. This is an option that is provided for in NUREG-0133 and is consistent with the TS Bases and the Final Safety Analysis Report. An administrative correction to the spelling of the word "or" would also be made in the same paragraph.

2.0 EVALUATION

Routine radioactive release reports are required semiannually by T.S. 6.9.1.8. The release report submitted to the NRC after January 1 of each year includes an assessment of the radiation doses due to radioactive gaseous effluents released from the unit during the previous calendar year. The existing TS 6.9.1.9 requires the use of the meteorological conditions concurrent with the time of release of radioactive materials in gaseous effluents to calculate the gaseous pathway doses. The assessment of radiation doses are performed in accordance with the Offsite Dose Calculation Manual (ODCM).

Gaseous releases which could affect the public health and safety are maintained within acceptable limits through the use of Limiting Conditions for Operations (LCO) included in TS 3.11.2, Gaseous Effluents. These TSs include dose rate calculational limits as well as gaseous radwaste treatment systems operability requirements. The licensee's proposed changes to TS 6.9.1.9 relate only to reporting requirements used for record purposes and do not affect the LCO requirements or safety actions in any way. In addition, as APCo has stated, the existing ODCM

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for the Farley Nuclear Plant contains Commission approved methodology for calculating the doses from gaseous releases. This methodology is based on historical average atmospheric conditions.

APCo states that the proposed change is consistent with Standard Review Plan (SRP), NUREG-0800. Paragraph III.4 of Section 2.3.5 of the SRP notes that the NRC staff will use annual relative concentration (X/Q) and relative disposition (D/Q) values in assessment of the consequences of routine airborne radioactive releases. The proposed change is consistent with the SRP methodology.

In addition to the SRP, noted above, NUREG-0133, "Preparation of Radiological Effluent Technical Specifications for Nuclear Power Plants," Sections 3.3, 5.2.1, and 5.3.1 note that the use of historical annual average meteorological conditions are acceptable for calculating doses due to routine gaseous effluent releases. Regulatory Guide (RG) 1.1.1, as well as NUREG-0133, provides guidance which could be used by licensees, depending on the meteorological conditions, in calculational models. In some cases the annual average conditions may be used and in other cases time of release conditions should be used. Further guidance is provided in NUREG-0324 for making a determination of doses due to short term releases, if such releases are sufficiently random in both time of day and duration. APCo states that historical release data from Farley demonstrate that the routine, operational short-term releases (i.e., less than 500 hours per quarter) meet NUREG-0133 criteria of being random in time of day and duration. Subsequent verification of this statement will be made during the normal on-site radiological inspections conducted by regional inspectors.

The licensee has proposed additional flexibility to TS 6.9.1.9 to allow using historical annual average meteorology or the meteorological conditions concurrent with the time of release. Thus, the proposed change is consistent with existing NRC staff guidance. Also, the radiation dose rate calculations would be done in accordance with the NRC approved ODCM. The spelling of the word "or" in the same paragraph is an administrative correction. Therefore, the proposed TS changes are acceptable.

### 3.0 ENVIRONMENTAL CONSIDERATION

These amendments change recordkeeping, reporting, or administrative procedures or requirements. 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 meet the eligibility criteria for

categorical exclusion as set forth in 10 CFR 51.22(c)(10). 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.

#### 4.0 CONCLUSION

The Commission made a proposed determination that this amendment involves no significant hazards consideration which was published in the Federal Register on December 30, 1987 (52 FR 49219), and consulted with the State of Alabama. No public comments or requests for hearing were received, and the State of Alabama did not have any comments.

The Staff has 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.

Principal Contributor: E. A. Reeves

Dated: March 8, 1988



AMENDMENT NO. 75 TO FACILITY OPERATING LICENSE NO. NPR-2 - FARLEY, UNIT 1  
AMENDMENT NO. 67 TO FACILITY OPERATING LICENSE NO. NPF-8 - FARLEY, UNIT 2

DISTRIBUTION:

Docket No. 50-348

Docket No. 50-364

NRC PDR

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PD21 r/f

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