

February 12, 1985

Docket Nos. 50-260/296

Mr. Hugh G. Parris  
Manager of Power  
Tennessee Valley Authority  
500A Chestnut Street, Tower II  
Chattanooga, Tennessee 37401

Dear Mr. Parris:

The Commission has issued the enclosed Amendment Nos. 110 and 85 to Facility Operating License Nos. DPR-52 and DPR-68 for the Browns Ferry Nuclear Plant, Units 2 and 3 in response to TVA's letter dated December 13, 1984.

These amendments modify Commission Orders dated March 25, 1983 to extend the date for installation of noble gas and iodine effluent monitors with local readout capability from December 31, 1984 to prior to startup of Unit 2 from the current refueling and modification outage (approximately July 15, 1985). These monitors are being installed to meet the requirements of NUREG-0737, Items II.F.1.1 and II.F.1.2.

A copy of the Commission's related Safety Evaluation is also enclosed.

Sincerely,

Original signed by/

Domenic Vassallo, Chief  
Operating Reactors Branch #2  
Division of Licensing

Enclosures:

1. Amendment No. 110 to License No. DPR-52
2. Amendment No. 85 to License No. DPR-68
3. Safety Evaluation

cc w/enclosures:  
See next page

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Mr. Hugh G. Parris  
Tennessee Valley Authority  
Browns Ferry Nuclear Plant, Units 1, 2 and 3

cc:

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

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-260

BROWNS FERRY NUCLEAR PLANT, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 110  
License No. DPR-52

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Tennessee Valley Authority (the licensee) dated December 13, 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, 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. The license is hereby amended by adding Paragraph 2.C.(13) to read as follows:

Commission Order dated March 25, 1983 is modified as follows:  
in Attachment 1, for item II.F.1.1 and II.F.1.2 change "12/31/84"  
to "Prior to startup in Cycle 6".

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

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in black ink, appearing to read "D. B. Vassallo", written in a cursive style.

Domenic B. Vassallo, Chief  
Operating Reactors Branch #2  
Division of Licensing

Date of Issuance: February 12, 1985



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

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-296

BROWNS FERRY NUCLEAR PLANT, UNIT 3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 85  
License No. DPR-68

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Tennessee Valley Authority (the licensee) dated December 13, 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, 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. The license is hereby amended by adding Paragraph 2.E.4 to read as follows:

Commission Order dated March 25, 1983 is modified as follows:  
in Attachment 1, for item II.F.1.1 and II.F.1.2 change "12/31/84"  
to "Prior to startup in Cycle 6".

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

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in black ink, appearing to read "D. Vassallo", written in a cursive style.

Domenic B. Vassallo, Chief  
Operating Reactors Branch #2  
Division of Licensing

Date of Issuance: February 12, 1985



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
SUPPORTING AMENDMENT NO. 110 TO FACILITY OPERATING LICENSE NO. DPR-52  
AMENDMENT NO. 85 TO FACILITY OPERATING LICENSE NO. DPR-68  
TENNESSEE VALLEY AUTHORITY  
BROWNS FERRY NUCLEAR PLANT, UNITS 2 AND 3  
DOCKET NOS. 50-260 AND 50-296

1.0 Introduction

Orders issued to TVA March 25, 1983 relating to NUREG-0737 actions require that TVA implement and maintain specific NUREG-0737 items described in attachments thereto no later than the dates indicated in the attachments.

Included in these attachments are requirements to (1) install noble gas effluent monitors with local readout capability (NUREG-0737, Item II.F.1.1) and (2) provide capability for effluent monitoring of iodine with local readout capability (NUREG-0737, Item II.F.1.2), by December 31, 1984, for Units 2 and 3, and prior to startup in Cycle 7 for Unit 1.

By letter dated November 28, 1984 TVA requested that the deadline for installing these two monitors be extended to "Prior to Unit 2 startup in Cycle 6" for Units 2 and 3. By letter dated December 13, 1984 TVA requested that the November 28 letter be processed as an amendment request pursuant to 10 CFR 50.90.

2.0 Evaluation

TVA's letter from L. M. Mills to H. R. Denton dated January 14, 1983, reflected scheduled completion of nonoutage work on items II.F.1.1 and II.F.1.2 during Unit 1 Cycle 6 outage approximately December 1, 1984. (The "nonoutage" work is common to all three units and provides local, but not control room, readout capability.) Performance of required outage work was shown for the Cycle 6 outage of each unit. Statements made later in a response to a request for additional information regarding items II.F.1.1 and II.F.1.2 were consistent with the above. That response was submitted by TVA letter from L. M. Mills to H. R. Denton dated February 28, 1983 and stated in part:

The monitoring equipment to be installed has local readout capability and would be functional except for control room instrumentation upon completion of the nonoutage work. Therefore, the monitoring equipment which is common to all three units as shown on the January 14, 1983 schedule would be operable

with local readout and have instrumentation installed in the Unit 1 control room during the Unit 1 Cycle 6 refueling outage. Items II.F.1.1 and II.F.1.2 will be completely operable by the end of the Unit 1 Cycle 6 outage with only the Units 2 and 3 control room instrumentations scheduled for installation during their respective Cycle 6 outages.

Based on the January 14, 1983 schedule and the February 28, 1983 response, NRC issued the March 25, 1983 Confirmatory Order documenting that the work related to local monitoring capability for items II.F.1.1 and II.F.1.2 (all units) would be completed by December 31, 1984. At that time this was consistent with TVA's projection for completion of the Unit 1 Cycle 6 outage.

Since that time, there have been major changes to the schedule, causing extended outages and thereby delaying the subsequent outages. These extended outages were primarily caused by the discovery of extensive cracking in stainless steel piping of Unit 1 during the Cycle 5 outage and the extended Unit 3 Cycle 5 outage. One of the major changes was a shift in the Unit 1 Cycle 6 outage start from September 1984 to February 1985. Any work, including nonoutage work, scheduled to start during the Unit 1 Cycle 6 outage, would likewise be shifted.

Because of the outage delays, TVA proposes to install and make operable the noble gas and iodine effluent monitors with local readout capability in Units 2 and 3 prior to startup of Unit 2 from the current refueling outage.

As a compensatory measure, TVA has committed to maintain the existing effluent monitors in service pending installation of the monitors (prior to startup of Unit 2 in Cycle 6, approximately July 12, 1985). The existing radiation monitors perform the same function as the monitors required by NUREG-0737, except that they do not have the high range capability set forth in NUREG-0737. Thus, during this period, there are existing radiation monitors for measuring effluent radioactivity. As an additional backup, TVA has the capability at Browns Ferry to periodically collect and analyze effluents via grab sampling.

For the Browns Ferry Nuclear Plant, Units 2 and 3, we find there is a good cause for a delay in installation of the radiation monitors specified in Items II.F.1.1 and II.F.1.2 and that acceptable interim compensatory measures have been provided.

### 3.0 Environmental Considerations

These amendments involve delay of a required change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the 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 occupational radiation exposure. The Commission has previously issued a proposed finding that the 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 set forth in 10 CFR 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 the amendments.

#### 4.0 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.

Principal Contributors: W. Long and R. Clark

Dated: February 12, 1985