

AUG 5 1976

Dockets Nos. 50-259  
and 50-260

Tennessee Valley Authority  
ATTN: Mr. Godwin Williams, Jr.  
Manager of Power  
818 Power Building  
Chattanooga, Tennessee 37201

Gentlemen:

The Commission has issued the enclosed Amendments Nos. 26 and 23 to Facility Licenses Nos. DPR-33 and DPR-52 for Browns Ferry Nuclear Plant, Units Nos. 1 and 2. These amendments are in response to your request of July 23, 1976, and revise the Technical Specifications to allow the withdrawal of one control rod at a time to perform functional testing of the control rod drive or control rod drive maintenance. The reactors remain subcritical with the withdrawal of any one rod. Therefore, there is no safety concern associated with thermal power production or fission product generation or potential release. Amendments Nos. 25 to DPR-33 and 22 to DPR-52 authorized removing a control rod accumulator from service for maintenance. These amendments preclude that activity when all control rods are not fully inserted. There are no other safety considerations associated with this authorization. The NRC staff has been authorized to issue these amendments by the August 4, 1976 Order of the Atomic Safety and Licensing Board presiding in the ongoing Browns Ferry, Units Nos. 1 and 2 proceeding.

We have determined that the amendments do 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 amendments involve an action which is insignificant from the standpoint of environmental impact and pursuant to 10 CFR §51.5(d)(4) that an environmental statement, negative declaration, or environmental impact appraisal need not be prepared in connection with the issuance of the amendments.

We have concluded, based on the considerations discussed above, that:  
(1) because the amendments do not involve a significant increase in the probability or consequences of accidents previously considered and do not involve a significant decrease in a safety margin, the amendments do not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public

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Tennessee Valley Authority

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

A copy of the Federal Register Notice is also enclosed.

Sincerely,

*TVWambach*

*Paul*

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

Enclosures:

- 1. Amendment No. *26* to DPR-33
- 2. Amendment No. *13* to DPR-52
- 3. Federal Register Notice

cc w/enclosures:

H. S. Sanger  
General Counsel  
629 New Sprankle Building  
Knoxville, Tennessee 37919

Athens Public Library  
South and Forrest  
Athens, Alabama 35611

Mr. William E. Garner  
Route 4, Box 354  
Scottsboro, Alabama 35768

Mr. Thomas Lee Hammons  
Chairman, Limestone County Board  
of Revenue  
Athens, Alabama 35611

Ira L. Myers, M.D.  
State Health Officer  
State Department of Public Health  
State Office Building  
Montgomery, Alabama 36104

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- JRBuchanan
- VStello
- DEisenhut
- DRoss
- CMiles, OPA
- JMcGough

*with changes  
discussed  
with JRM*

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SURNAME	TVWambach:1b	LBenn	AASchwencer		
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-259

BROWNS FERRY NUCLEAR PLANT, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 26  
License No. DPR-33

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Tennessee Valley Authority (the licensee) dated July 23, 1976, 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.

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

FOR THE NUCLEAR REGULATORY COMMISSION

*J. V. Wambach*

*for*

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

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: August 5, 1976



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. 23  
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 July 23, 1976, 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.

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

FOR THE NUCLEAR REGULATORY COMMISSION

*J. V. Wambach*  
*for* A. Schwencer, Chief  
Operating Reactors Branch #1  
Division of Operating Reactors

Attachment:  
Changes to the Technical  
Specifications

Date of issuance: August 5, 1976

ATTACHMENT TO LICENSE AMENDMENTS

AMENDMENT NO. 26 TO FACILITY LICENSE NO. DPR-33

AMENDMENT NO. 23 TO FACILITY LICENSE NO. DPR-52

DOCKETS NOS. 50-259 & 50-260

Revise Appendix A as follows:

Remove pages 27, 108 and 108a and insert revised pages 27, 108 and 108a.

**1.2 REACTOR COOLANT SYSTEM INTEGRITY**Applicability

Applies to limits on reactor coolant system pressure.

Objective

To establish a limit below which the integrity of the reactor coolant system is not threatened due to an overpressure condition.

Specification

- A. The pressure at the lowest point of the reactor vessel shall not exceed 1,375 psig whenever irradiated fuel is in the reactor vessel.
- B. The reactor head spray nozzle shall not be installed and the RHR piping shall not be connected to the head spray nozzle flange.

**2.2 REACTOR COOLANT SYSTEM INTEGRITY**Applicability

Applies to the devices which are provided to prevent the reactor system safety limits from being exceeded.

Objective

To define the protective action to prevent the pressure safety limit from being exceeded.

Specification

- A. The reactor vessel head vent valves shall be kept in the open position.
- B. Four safety relief valves which have accumulators shall be functional on each unit with two valves powered from each of two 250V DC MOV boards, whenever the reactor vessel head is bolted in place.



**3.3 REACTIVITY CONTROL**Applicability

Applies to the operational status of the control rod system.

Objective

To assure the ability of the control rod system to control reactivity while fuel is in the reactor vessel.

Specification

While more than one fuel assembly is in the reactor vessel, the requirements of 3.3.A through 3.3.F shall be met, except as specified in 3.3.G.

- A. All control rods shall be inserted in the full-in position.
- B. The directional control valves shall be disarmed electrically for all control rods.
- C. The manual valves in the drive water supply shall be in the shut position to prohibit rod movement.

**4.3 REACTIVITY CONTROL**Applicability

Applies to the surveillance requirements of the control rod system.

Objective

To verify the ability of the control rod system to control reactivity.

Specification

- A. Control rod position shall be verified in accordance with Table 4.2.A.
- B. Each directional control valve shall be verified to be electrically disarmed at intervals not to exceed once every 3 days.
- C. The drive water supply valve (85-593) to each hydraulic control unit shall be verified closed and the water supply valves (85-612, 85-615) to each shall be verified open at intervals not to exceed once every 3 days.

LIMITING CONDITIONS FOR OPERATION

SURVEILLANCE REQUIREMENTS

- D. The control rod accumulators shall be charged except any one control rod accumulator may be removed from service for maintenance provided that fuel loading or the operations described in specification 3.3.G below are not being performed in the affected unit.
- E. Two SRM channels shall be functional.
- F. One control rod drive pump shall be in service.
- G. One control rod drive may be electrically armed with its drive water valves opened and the rod withdrawn for the purpose of functional testing and/or control rod drive maintenance, provided the requirements of 3.3.A through 3.3.F are met for all other control rods.

- D. The accumulator pressure shall be checked once a day.
- E. The count rate shall be recorded once each shift.
- F. The control rod drive pump discharge pressure shall be checked once per shift.

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKETS NOS. 50-259 AND 50-260

TENNESSEE VALLEY AUTHORITY

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY  
OPERATING LICENSES

The U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 26 to Facility Operating License No. DPR- 33 and Amendment No. 23 to Facility Operating License No. DPR-52 issued to Tennessee Valley Authority (the licensee) which revised the Technical Specifications of the Browns Ferry Nuclear Plant, Units Nos. 1 and 2, located in Limestone County, Alabama. The amendments are effective as of the date of issuance.

These amendments revise the Technical Specifications to allow the withdrawal of one control rod at a time to perform functional testing of the control rod drive or control rod drive maintenance. The NRC staff has been authorized to issue these amendments by the August 4, 1976 Order of the Atomic Safety and Licensing Board presiding in the ongoing Browns Ferry, Units Nos. 1 and 2 preceeding.

The application for these amendments 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 amendments. Prior public notice of these amendments was not required since the amendments do not involve a significant hazards consideration.

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

For further details with respect to this action, see (1) the application for amendments dated July 23, 1976, and (2) Amendment No. 26 to License No. DPR-33 and Amendment No. 23 to License No. DPR-52. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, NW., Washington, D.C. 20555, and at the Athens Public Library, South and Forrest, Athens, Alabama 35611. A copy of item (2) 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 5th day of August 1976.

FOR THE NUCLEAR REGULATORY COMMISSION

*Thomas V. Wambach*  
Thomas V. Wambach, Acting Chief  
Operating Reactors Branch #1  
Division of Operating Reactors