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 Ellen Brown, F&M
 I. Dinitz
 G. Dicker
 D. Muller
 ACRS (16)
 LWR 2 Branch Chiefs
 w/o Tech Specs)

Docket No. 50-260

JUN 28 1974

Tennessee Valley Authority
 ATTN: Mr. James E. Watson
 Manager of Power
 818 Power Building
 Chattanooga, Tennessee 37401

Gentlemen:

The Atomic Safety and Licensing Board having dismissed the proceeding relating to the licensing action in a "Memorandum and Order," dated November 27, 1973, the Atomic Energy Commission has issued Facility Operating License No. DPR-52 (copy enclosed) for Tennessee Valley Authority's Browns Ferry Nuclear Plant, Unit 2. The license authorizes operation of Unit 2 at reactor core power levels not in excess of 33 megawatts thermal in accordance with the Technical Specifications appended thereto, which have been reissued in entirety as Change No. 4 to the original Technical Specifications appended to License No. DPR-33, dated June 26, 1973, (Docket No. 50-259) for Browns Ferry Nuclear Plant, Unit 1. The activities authorized under the license are temporarily limited to fuel loading, low power testing, and operation at 1% of the facility's power level of 3293 megawatts thermal until a number of remaining items set forth in the Technical Specifications have been satisfactorily completed.

A concurrent Amendment No. 3 to License No. DPR-33 has been issued for the purpose of incorporating the reissued Technical Specifications into the Unit 1 license. Details relating to the revisions made to the Technical Specifications are provided in the Commission's Safety Evaluation Report relating to Amendment No. 3 to License No. DPR-33.

OFFICE ➤	L: DPR 2-1	L: LWR 2-1	OGC	L: OAI	L: F&M	L: LWR 2
SURNAME ➤	Williams	JF Stone	J. Smith	I. Dinitz	D. Muller G. Dicker	V. Moore
DATE ➤	6/2/74	6/18/74	6/28/74	6/18/74	6/28/74	6/ /74

See previous at enclosure

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 ATTN: Mr. James E. Watson
 Manager of Power
 818 Power Building
 Chattanooga, Tennessee 37401

Gentlemen:

The Atomic Safety and Licensing Board having dismissed the proceeding relating to the licensing action in a "Memorandum and Order," dated November 27, 1973, the Atomic Energy Commission has issued Facility Operating License No. DPR-52 (copy enclosed) for Tennessee Valley Authority's Brown Ferry Nuclear Plant, Unit 2. The license authorizes operation of Unit 2 at steady state reactor core power levels not in excess of 3293 megawatts thermal in accordance with the Technical Specifications appended thereto, which have been reissued in entirety as Change No. 4 to the original Technical Specifications appended to License No. DPR-33, dated June 26, 1973, (Docket No. 50-259) for Browns Ferry Nuclear Plant, Unit 1. However, activities authorized under the license are temporarily limited to fuel loading, low power testing, and operation at 1% of the rated power level until the following items have been completed: (a) installations related to main steam relief valves and valve discharge lines; (b) installation of vessel studs and feedwater nozzle fatigue instrumentation; (c) installation of drywell control air system and preoperation test; (d) change of power source to recirculation system runback relays and indicating lights; (e) installation of seismic hangers and restraints (RBCCW and CRD); (f) installation of improvements and calibration of Barton instruments, (g) installation of restraint on HPCI steam supply line; (i) rebuilding Bergen-Paterson shock suppressors with new seals; (j) installation related to the capability of adjusting flow bias trip; (k) addition of scram trip signal to computer from RPS; (l) installation of shock suppressors on torus ring header; (m) installation of vacuum breakers (HPCI and RCIC exhaust lines); (n) relocation of thermocouples in drywell; and (o) a change related to lift valve nameplates for higher pressure rating.

A concurrent Amendment No. 3 to License No. DPR-33 has been issued for the purpose of incorporating the reissued Technical Specifications into the Unit 1 license. Details relating to the revisions made to the Technical Specifications are provided in the Commission's Safety Evaluation Report relating to Amendment No. 3 to License No. DPR-33.

OFFICE ▶	L:LWR 2-1	L:LWR 2-1	OGC	L:OAI	L:EP	L:LWR 2
SURNAME ▶	William Smith	JFStolz		IDinitz	DMuller GDicker	VMoore
DATE ▶	6/18/74	6/18/74	6/ /74	6/ /74	6/ /74	6/18/74

JUN 28 1974

A related notice, which has been forwarded to the Office of the Federal Register for filing and publication, is enclosed for your information.

Two signed copies of Amendment No. 6 to Indemnity Agreement No. B-52, which covers the activities authorized under License No. DPR-52, are enclosed for your review and acceptance. Please sign and return one copy of the amendment to this office.

Sincerely,

Original Signed by

John F. Stolz

(for)

Voss A. Moore, Assistant Director
for Light Water Reactors Group 2
Directorate of Licensing

Enclosures:

- 1. License No. DPR-52 w/Technical Specifications
Appendices A and B -- Change No. 4
- 2. Federal Register Notice
- 3. Amendment No. 6 to Indemnity Agreement
No. B-52

cc: Mr. Robert H. Marquis
General Counsel
629 New Sprankle Building
Knoxville, Tennessee 37919

Mr. Dave Hopkins
Environmental Protection Agency
1421 Peachtree Street, N. E.
Atlanta, Georgia 30309

Dr. Cecil Thomas
Tennessee Valley Authority
303 Power Building
Chattanooga, Tennessee 37401

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

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

Mr. Bruce Blanchard
Office of Environmental
Projects Review
Department of the Interior
Room 5321
18th and C Streets, N. W.
Washington, D. C. 20240

Mrs. Maude S. Miller, Librarian
Athens Public Library
South and Forrest
Athens, Alabama 35611

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

OFFICE ▶	Athens, Alabama 35611				
SURNAME ▶					
DATE ▶					

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 50-260

TENNESSEE VALLEY AUTHORITY

(BROWNS FERRY NUCLEAR PLANT, UNIT 2)

NOTICE OF ISSUANCE OF A FACILITY OPERATING LICENSE

The Atomic Safety and Licensing Board having dismissed the proceeding relating to licensing action in a "Memorandum and Order," dated November 27, 1973, the Atomic Energy Commission (the Commission) has issued Facility Operating License No. DPR-52 to the Tennessee Valley Authority authorizing operation of the Browns Ferry Nuclear Plant, Unit 2 at reactor core power levels not in excess of 33 megawatts thermal (1% of the facility's rated power level of 3293 megawatts thermal), in accordance with the provisions of the license and the Technical Specifications attached thereto, which have been reissued entirety as Change No. 4 to the original Technical Specifications appended to License No. DPR-33, dated June 26, 1973 (Docket No. 50-259) for Browns Ferry Nuclear Plant, Unit 1. The activities authorized under the license are temporarily limited to fuel loading, low power testing, and operation at 1% of the rated power level until a number of remaining items set forth in the Technical Specifications have been satisfactorily completed. None of these items are required for fuel loading and low power operation authorized by the license. The Browns Ferry Nuclear Plant, Unit 2 is a boiling water nuclear reactor located at the licensee's site in Limestone County, Alabama.

The Commission has made appropriate findings as required by the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license. The

application for the license complies with the standards and requirements of the Act and the Commission's rules and regulations.

The license is effective as of its date of issuance and shall expire on May 10, 2007.

A copy of (1) the Memorandum and Order dated November 27, 1973; (2) the Facility Operating License No. DPR-52 and the Technical Specifications (Appendices "A" and "B"); (3) the report of the Advisory Committee on Reactor Safeguards, dated December 11, 1973; (4) the Directorate of Licensing's Safety Evaluation and Errata thereto dated June 26, 1972, and Supplements 1 through 6 thereto; (5) the Final Safety Analysis Report and amendments thereto; (6) the licensee's Draft Environmental Statement dated July 1971, and supplement thereto dated November 8, 1971; and (7) the licensee's Final Environmental Statement dated September 1, 1972, are available for public inspection at the Commission's Public Document Room at 1717 H Street, N. W., Washington, D. C., and the Athens Public Library, South and Forrests, Athens, Alabama 35611.

A copy of the license and the Safety Evaluation, including Supplements 1 through 6, may be obtained upon request addressed to the United States Atomic Energy Commission, Regulation, Washington, D. C. 20545, Attention: Deputy Director for Reactor Projects, Directorate of Licensing.

Dated at Bethesda, Maryland, this 28th day of June, 1974.

FOR THE ATOMIC ENERGY COMMISSION

Original Signed by
John F. Stolz

John F. Stolz, Chief
Light Water Reactors Project Branch 2-1
Directorate of Licensing

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 50-260

TENNESSEE VALLEY AUTHORITY

(BROWNS FERRY NUCLEAR PLANT, UNIT 2)

NOTICE OF ISSUANCE OF A FACILITY OPERATING LICENSE

The Atomic Safety and Licensing Board having dismissed the proceeding relating to licensing action in a "Memorandum and Order," dated November 27, 1973, the Atomic Energy Commission (the Commission) has issued Facility Operating License No. DPR-52 to the Tennessee Valley Authority authorizing operation of the Browns Ferry Nuclear Plant, Unit 2 at reactor core power levels not in excess of 33 megawatts thermal (1% of the facility's rated power level of 3293 megawatts thermal), in accordance with the provisions of the license and the Technical Specifications attached thereto, which have been reissued entirety as Change No. 4 to the original Technical Specifications appended to License No. DPR-33, dated June 26, 1973 (Docket No. 50-259) for Browns Ferry Nuclear Plant, Unit 1. The activities authorized under the license are temporarily limited to fuel loading, low power testing, and operation at 1% of the rated power level until a number of remaining items set forth in the Technical Specifications have been satisfactorily completed. None of these items are required for fuel loading and low power operation authorized by the license. The Browns Ferry Nuclear Plant, Unit 2 is a boiling water nuclear reactor located at the licensee's site in Limestone County, Alabama.

The Commission has made appropriate findings as required by the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license. The

application for the license complies with the standards and requirements of the Act and the Commission's rules and regulations.

The license is effective as of its date of issuance and shall expire on May 10, 2007.

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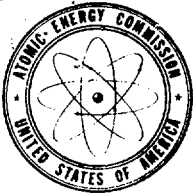
A copy of the license and the Safety Evaluation, including Supplements 1 through 6, may be obtained upon request addressed to the United States Atomic Energy Commission, Regulation, Washington, D. C. 20545, Attention: Deputy Director for Reactor Projects, Directorate of Licensing.

Dated at Bethesda, Maryland, this 28th day of June, 1974.

FOR THE ATOMIC ENERGY COMMISSION

Original Signed by
John F. Stolz

John F. Stolz, Chief
Light Water Reactors Project Branch 2-1
Directorate of Licensing



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-260

BROWNS FERRY NUCLEAR PLANT, UNIT 2

FACILITY OPERATING LICENSE

License No. DPR-52

1. The Atomic Energy Commission (the Commission) having found that:
 - A. The application for license filed by the Tennessee Valley Authority (the licensee) 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 and all required notifications to other agencies or bodies have been duly made;
 - B. Construction of the Browns Ferry Nuclear Plant, Unit 2 (the facility) has been substantially completed in conformity with Construction Permit No. CPPR-30 and the application, as amended, the provisions of the Act and the rules and regulations of the Commission;
 - C. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission;
 - D. There is reasonable assurance: (i) that the activities authorized by this operating license can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the rules and regulations of the Commission;
 - E. The licensee is technically and financially qualified to engage in the activities authorized by this operating license in accordance with the rules and regulations of the Commission;
 - F. The licensee has satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;

- G. The issuance of this operating license will not be inimical to the common defense and security or to the health and safety of the public;
 - H. After weighing the environmental, economic, technical, and other benefits of the facility against environmental costs and considering available alternatives, the issuance of Facility Operating License No. DPR-52 is in accordance with 10 CFR Part 50, Appendix D, of the Commission's regulations and all applicable requirements of said Appendix D have been satisfied; and
 - I. The receipt, possession, and use of source, by-product and special nuclear material as authorized by this license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40, and 70, including 10 CFR Section 30.33, 40.32, and 70.23 and 70.31
2. The Atomic Safety and Licensing Board having dismissed the proceeding relating to the licensing action in a "Memorandum and Order," dated November 27, 1973, Facility Operating License No. DPR-52 is hereby issued to the Tennessee Valley Authority to read as follows:
- A. This license applies to the Browns Ferry Nuclear Plant, Unit 2 a boiling water reactor and associated equipment (the facility), owned by the Tennessee Valley Authority. The facility is located in Limestone County, Alabama, and is described in the "Final Safety Analysis Report" (Amendment 9) as supplemented and amended (Amendments 10 through 55); the licensee's Draft Environmental Statement and Supplement thereto dated July 1971, and November 8, 1971, respectively, and the licensee's Final Environmental Statement dated September 1, 1972.
 - B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses the Tennessee Valley Authority:
 - (1) Pursuant to Section 104b of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities," to possess, use, and operate the facility at the designated location in Limestone County, Alabama, in accordance with the procedures and limitations set forth in this license;
 - (2) Pursuant to the Act and 10 CFR Parts 30, 40 and 70 to receive, possess and use at any time any byproduct, source and special nuclear material as reactor fuel,

sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required for reactor operation;

- (3) Pursuant to the Act and 10 CFR Part 30 to receive, possess and use at any time 100 millicuries each of any byproduct material without restriction to chemical or physical form, for sample analysis or instrument calibration; and up to 500 millicuries of Hydrogen 3, not to exceed 250 millicuries per source;
- (4) Pursuant to the Act and 10 CFR Parts 40 and 70 to receive, possess and use at any time 100 milligrams each of any source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration;
- (5) Pursuant to the Act and 10 CFR Parts 30 and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility.

C. This license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR Chapter I: Part 20, Section 30.34 of Part 30, Section 40.41 of Part 40, Sections 50.54 and 50.59 of Part 50, and Section 70.32 of Part 70; is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

(1) Maximum Power Level

The licensee is authorized to operate the facility at reactor core power levels not in excess of 33 megawatts thermal (1% of the facility's rated power level of 3293 megawatts thermal).

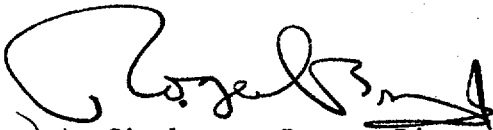
(2) Technical Specifications

The Technical Specifications contained in Appendices A and B attached hereto are hereby incorporated in this license. Appendices A and B have been reissued in entirety as Change No. 4 to the original Technical Specifications appended to License No. DPR-33, dated June 26, 1973 (Docket No. 50-259) for Browns Ferry Nuclear Plant, Unit 1. The licensee shall operate the facility in accordance with the attached Technical Specifications.

(3) In the operation of the facility, the licensee shall, pursuant to the Federal Water Pollution Control Act Amendments of 1972 (Public Law 92-500), comply with all applicable thermal water quality standards of the State of Alabama and the United States.

D. This license is effective as of the date of issuance and shall expire at midnight, May 10, 2007.

FOR THE ATOMIC ENERGY COMMISSION


(for) A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

Attachment:
Appendices A & B - Technical
Specifications

Date of Issuance: **JUN 28 1974**

CHECKLIST FOR ISSUANCE OF FACILITY OPERATING LICENSE

Applicant Tennessee Valley Authority Doc' No. 50-260
 Facility Browns Ferry Nuclear Plant, Unit 2
 Project Manager F. (Mike) Williams Licensing Assistant Hazel Smith
 DATE

Notice of Consideration of Issuance of License:
 Published in FEDERAL REGISTER (37 FR 19394) 9-20-72
 Action Date 10-21-72

OR

Initial Decision or Order ("Memorandum and Order" dismissing
 Safety Review: the proceeding) 11-27-73
 L Safety Evaluation (Supplement 6, 6/1974) 6-26-72
 ACRS Letter 12-11-73

Environmental Review:
 Final Environmental Statement 9-1-72
 Published in FEDERAL REGISTER (37 FR 20052) 9-23-72

Antitrust Review:
 OAI Concurrences n/a

Notifications Required by Act & Commission Rules*:
 State Official 10-15-70
 Local Official 12-11-70

Water Quality Certification: _____ Type
 Submitted by Applicant n/a
 Transmitted to EPA n/a

License Fee:
 Amount: \$545,160 Paid 5-6-74

Indemnity Agreement: (attach copy to letter)
 OAI Concurrence 6-28-74
 several times since
 week of 5-6-74

Status of Outstanding Construction Items Checked w/RO
 QA Program: (for plants licensed after 3/31/74) ~ 3-21-74
 Required to be operational** 11-1-74
 In Effect 6-13-74

Regulatory Operations Final Report: (If Available) 6-13-74

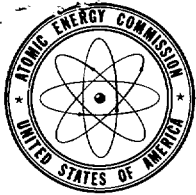
Technical Specifications:
 RP Concurrence 6-17-74
 EP Concurrence 6/28/74

Public Announcement (to be released): (If Available)
 (Attach Copy) undated

Issuance Package: OGC Concurrence
 1. License 6/28/74
 2. FEDERAL REGISTER Notice 6/28/74
 3. Letter to Applicant 6/28/74
 4. Information Report 6/28/74

LETTER TO JCAE has been prepared

* Date Initial Application Forwarded
 * 90 days prior to fuel loading or 30 days prior to hearing if QA item in contention



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

A. Giambusso, Deputy Director for Reactor Projects, L
THRU: Von A. Nune,
BROWNS FERRY LICENSING PACKAGE

1. License Package Contains

- a. An Amendment 3 to the full power license for Unit 1 required by Change 4 to the original Tech Specs.
- b. A 1% license of Unit 2 in accordance with Tech Specs appended thereto (Change 4 to the original Tech Specs covers both Units 1 & 2).

2. Reasons for 1% License for Unit 2

We restricted the power in the Tech Specs (page 1a) based on the RO laundry list. OGC felt that the 1% restriction should also be reflected in license - and, of course, in notices and related correspondence.

3. Highlights of Licensing Problems Experimented During Our Review With OGC

- . High Energy Line Breaks Outside Containment

We concluded that some modification for HPCI, RCIC and RWCU line restraints & safety equipment relocation could be implemented at the first refueling for Unit 2. At OGC's request, we specifically noted in our safety evaluation, an interim exemption from GDC 4 (see pages 5, 7) for Unit 2 above 1% power.

We will handle Unit 1 separately to avoid an immediate delay of the entire licensing package due to the prenoticing problem on Unit 1 with respect to interpreting "significant safety consideration." TVA will subsequently request exemptions for Units 1 & 2 for the full power license, and we will at that time repeat our evaluation and prenotice Unit 1.

- . No items in our Tech Spec change safety evaluation were considered to be a significant safety consideration so that Unit 1 need not be prenoticed now.

(Joe Scinto will be available to discuss the unusual legal items described here)

A handwritten signature in cursive script, reading "John F. Stolz", is written over the typed name and title.

John F. Stolz, Chief
Light Water Reactors Project Branch 2-1
Directorate of Licensing