

Docket File

SEP 25 1973

Docket No. 50-259

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

Gentlemen:

The Atomic Energy Commission has issued Amendment No. 1 to Facility Operating License No. DPR-33 (copy enclosed), which authorizes an increased amount of Sodium-24 and eliminates the restriction on the form of 1 millicurie of Americium-241. Additional Sodium-24 is required for efficiency testing of Unit 1 turbine by means of steam quality determinations. The 1 millicurie of Americium-241 is needed without restriction as to chemical or physical form to allow the material to be procured in liquid form, so individual sources which will be used in the calibration of the radiochemical laboratory counting instrumentation can be fabricated in the same manner as the samples whose activity is to be measured. You have described in a letter to the Commission dated September 17, 1973, the material's usage and control and have in force for the Browns Ferry Nuclear Plant, Standard Practice Number 8, entitled "Radioactive Byproduct Materials," which contains procedures and authorizations regarding safety, control, and accountability requirements governing the storage and use of licensed byproduct material such as Sodium-24 and Americium-241. It is concluded therefrom that this amendment does not present a significant hazards consideration.

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

Sincerely,

1/5/
Voss A. Moore, Assistant Director
for Boiling Water Reactors
Directorate of Licensing

Enclosures:

1. Amendment 1 to License DPR-33
2. Federal Register Notice

Lia + C.P.

OFFICE	(see next page)				
CC: ▶					
SURNAME ▶					
DATE ▶					

SEP 25 1973

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

Honorable William J. Baxley
Attorney General
State of Alabama
Montgomery, Alabama 36104

Honorable Henry H. Caddell
Assistant Attorney General
State of Alabama
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Mr. Frank L. Parker
Environmental and Water Resources
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Ira L. Meyers, M.D.
State Health Officer
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State Office Building
Montgomery, Alabama 36104

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

Cecil Thomas, Nuclear Engineer
303 Power Building
Chattanooga, Tennessee 37401

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

Mr. Aubrey Godwin, Acting Director
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State Office Building, Room 313
Montgomery, Alabama 36104

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bcc: H. J. McAlduff, ORO
J. R. Buchanan, ORNL
Thomas B. Abernathy, DTIE
A. Rosenthal, ASLAB
N. H. Goodrich, ASLBP

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SURNAME ▶	HSmith:ew	FWilliams	JFSto		
DATE ▶	9/21/73	9/21/73	9/21/73	9/21/73	9/24/73

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Voss A. Moore, Assistant Director
for Boiling Water Reactors
Directorate of Licensing

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Attorney General
State of Alabama
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Honorable Henry H. Caddell
Assistant Attorney General
State of Alabama
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cc: Mr. Frank L. Parker
 Environmental and Water Resources
 Engineering
 Vanderbilt University
 Nashville, Tennessee 37235

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 State Department of Public Health
 State Office Building
 Montgomery, Alabama 36104

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 Chairman, Limestone County
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 W. Miller, DR:AO
 R. Clark, EP
 BWR Branch Chiefs
 ACRS (16)

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SURNAME ▶	HSmith:ew	FWilliams	JFStolz		VAMoore	AGiambusso
DATE ▶	8/1/73	8/17/73	8/17/73	8/1/73	8/27/73	



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

TENNESSEE VALLEY AUTHORITY
(BROWNS FERRY NUCLEAR PLANT, UNIT 1)

DOCKET NO. 50-259

FACILITY OPERATING LICENSE

Amendment No. 1
License No. DPR-33

1. The Atomic Energy Commission (the Commission) having found that:
 - A. The application for amendment complies with the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations set forth in 10 CFR Chapter 1;
 - B. The facility will operate in conformity with the license, as amended, 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. Prior public notice of proposed issuance of this amendment is not required since the amendment does not present a significant hazards consideration.
2. Accordingly, Facility Operating License No. DPR-33 issued to Tennessee Valley Authority is hereby amended by revising the following paragraphs thereof in their entirety to read:
 - 2B(3)e. Sodium-24, up to 1000 millicuries without restriction as to chemical or physical form; and
 - 2B(3)g. Americium-241, 1 sealed source of 10 curies in the form of an Americium-Beryllium neutron source, and 1 millicurie without restriction as to the chemical or physical form.

This amendment is effective as of the date of issuance.

FOR THE ATOMIC ENERGY COMMISSION

A Giambusso

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

Date of Issuance: **SEP 25 1973**

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 50-259

TENNESSEE VALLEY AUTHORITY

(BROWNS FERRY NUCLEAR PLANT, UNIT 1)

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE

Notice is hereby given that the Atomic Energy Commission (the Commission) has issued Amendment No. 1 to Facility Operating License No. DPR-33 to the Tennessee Valley Authority (the licensee). This amendment authorizes the licensee to possess 1,000 millicuries of sodium-24 instead of 500 millicuries and 1 millicurie of Americium-241 without restriction as to the chemical or physical form instead of in the form of sealed or plated sources. The facility is a boiling water nuclear reactor located at the licensee's site in Limestone County, Alabama.

Additional Sodium-24 is required for efficiency testing of Unit 1 turbine by means of steam quality determinations. The 1 millicurie of Americium-241 is needed without restriction as to chemical or physical form to allow the material to be procured in liquid form, so individual sources which will be used in the calibration of the radiochemical laboratory counting instrumentation can be fabricated in the same manner as the samples whose activity is to be measured. The licensee has described in a letter to the Commission dated September 17, 1973, the material's usage and control and has in force for the Browns Ferry Nuclear Plant, Standard Practice Number 8, entitled "Radioactive Byproduct Materials," which contains procedures and authorizations regarding safety, control, and accountability requirements governing the storage and use of licensed byproduct material such as Sodium-24 and Americium-241. It is concluded therefrom that this amendment does not

present a significant hazards consideration.

The Director of Regulation has made appropriate findings as required by the Act and the Commission's regulations in 10 CFR Chapter I, which are set forth in the license amendment.

The amendment is effective as of the date of issuance. The licensee's application for amendment dated September 17, 1973, and a copy of Amendment No. 1 to Facility Operating License No. DPR-33 is available for public inspection at the Commission's Public Document Room at 1717 H Street, N.W., Washington, D.C. 20545, and the Athens Public Library, South and Forrest, Athens, Alabama 35611. Single copies of the amendment may be obtained upon request addressed to the United States Atomic Energy Commission, Washington, D.C. 20545, Attention: Deputy Director for Reactor Projects, Directorate of Licensing.

Dated at Bethesda, Maryland, this 25th day of September, 1973.

FOR THE ATOMIC ENERGY COMMISSION



Francis J. Williams, Jr. (for)
John F. Stolz, Chief
Boiling Water Reactors Branch No. 2
Directorate of Licensing