

MAY 25 1972

Docket No. 50-280

Virginia Electric and Power Company  
ATTN: Mr. E. B. Crutchfield  
Vice President  
P. O. Box 26666  
Richmond, Virginia 23261

Gentlemen:

Pursuant to the Initial Decision (copy enclosed) of the Atomic Safety and Licensing Board, the Atomic Energy Commission has issued Facility Operating License No. DPR-32, with appended Technical Specifications, (copy enclosed) to the Virginia Electric and Power Company. The license authorizes Virginia Electric and Power Company to operate the Surry Power Station Unit No. 1 at steady state power levels not in excess of 2441 megawatts (thermal), in accordance with the provisions of the license and the Technical Specifications, except that Virginia Electric and Power Company shall not operate the reactor at power levels in excess of 1220 megawatts thermal (50 percent of the facility's rated power level of 2441 Mwt) until the results of the environmental qualification tests performed on the recirculation spray pump motors have been evaluated and have been approved in writing by the Commission.

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

Two signed copies of Amendment No. 4 to Indemnity Agreement No. B-45 which covers the activities authorized under License No. DPR-32 are enclosed for your review and acceptance. Please sign and return one copy of the amendment to this office.

Sincerely,

Original Signed by  
R. C. DeYoung

R. C. DeYoung, Assistant Director  
for Pressurized Water Reactors  
Directorate of Licensing

Enclosures: (See next page)

C R E S S 2050, 03-04 5-10-72	OFFICE ▶ AD:PWR	AD:PWR	PWR-1	PWR-1		215
	SURNAME ▶ NBrown:bv	RCDeYoung	Murphy	Vassallo		
	DATE ▶ 5-17-72	5-22-72	5-22-72	5-22-72		

Virginia Electric and Power  
Company

Enclosures:

1. Facility License No. DPR-32
2. Initial Decision
3. Notice of Issuance
4. Amendment No. 4 to Indemnity Agreement (2)

cc w/encls:

George D. Gibson, Esq.  
 Hunton, Williams, Gay, Powell  
 & Gibson  
 P. O. Box 1535  
 Richmond, Virginia 23213

Mr. M. Sherlock Holmes  
 Chairman  
 Board of Supervisors of Surry County  
 Surry County Court House, Virginia 23683


Mr. H. Lester Hooker, Chairman  
 State Corporation Commission  
 Commonwealth of Virginia  
 P. O. Box 1197  
 Richmond, Virginia 23209

bcc w/encls as indicated:

- HJMcAlduff
- HMueller, GMR/H
- JAHarris, PI
- \*JRBuchanan, ORNL
- \*TWLaughlin, DTIE
- \*NHGoodrich, ASLB
- \*SRobinson, SECY
- JSaltzman, L
- \*AAWells, ASLBP

\*w/Technical Specifications

DISTRIBUTION: (each w/encl except as indicated)

- \*AEC PDR
- Local PDR
- \*Docket File 
- L R/F
- PWR-1 File
- \*EGCase, L
- \*JScinto, OGC
- RSBoyd, L
- \*CO (2)
- \*NDube, L (w/3 encls)
- \*RCDeYoung, L
- \*DJSkovholt, L
- \*PFCollins, L
- Project Leader (Murphy)
- NMBrown (2)

OFFICE ▶						
SURNAME ▶						
DATE ▶						



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

VIRGINIA ELECTRIC AND POWER COMPANY  
DOCKET NO. 50-281  
FACILITY OPERATING LICENSE

License No. DPR-37

The Atomic Energy Commission (the Commission) having found that:

- a. Construction of the Surry Power Station Unit No. 2, (the facility) has been substantially completed in conformity with Provisional Construction Permit No. CPPR-44, the application, as amended, the provisions of the Atomic Energy Act of 1954, as amended (the Act) and the rules and regulations of the Commission as set forth in Title 10, Chapter 1, Code of Federal Regulations; and
- b. The facility will operate in conformity with the application as amended, the provisions of the Act, and the rules and regulations of the Commission; and
- c. There is reasonable assurance (i) that the activities authorized by the 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; and
- d. The Virginia Electric and Power Company (the licensee) is technically and financially qualified to engage in the activities authorized by the operating license in accordance with the rules and regulations of the Commission; and
- e. The applicable provisions of 10 CFR Part 140 of the Commission's regulations, "Financial Protection Requirements and Indemnity Agreements," have been satisfied; and
- f. The issuance of this license will not be inimical to the common defense and security or to the health and safety of the public; and
- g. In accordance with the requirements of Appendix D to 10 CFR Part 50, the operating license should be issued subject to conditions for protection of the environment set forth in the Technical Specifications incorporated herein.

Facility Operating License No. DPR-37 is hereby issued to the licensee as follows:

1. This license applies to the Surry Power Station, Unit No. 2, a pressurized, light water moderated and cooled reactor, and associated steam generators and electric generating equipment (the facility). The facility is located on the licensee's 840 acre site on a point of land called Gravel Neck on the James River, approximately fourteen miles northwest of Newport News and twenty-five miles northwest of Norfolk, Virginia, and is described in the Final Safety Analysis Report, as amended (Amendments Nos. 12-33).
2. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses the licensee:
  - A. Pursuant to Section 104b of the Atomic Energy Act of 1954, as amended (the Act), and 10 CFR Part 50, "Licensing of Production and Utilization Facilities," to possess, use, and operate the facility as a utilization facility at the designated location on the Surry Power Station site; and
  - B. Pursuant to the Act and 10 CFR Part 70, "Special Nuclear Material," to receive, possess, and use at any time up to 1820 kilograms of U-235 contained in fuel assemblies for Surry Unit No. 2, 80 milligrams of U-235 contained in incore detectors, and 210 curies of Pu-238 as sealed Pu-Be neutron sources, all in connection with operation of the facility; and
  - C. Pursuant to the Act, 10 CFR Part 30, "Rules of General Applicability to Licensing of Byproduct Material," and 10 CFR Part 40, "Licensing of Source Material," to receive, possess, and use in connection with operation of the facility four dosimeter capsules containing a total of  $16 \times 10^{-3}$  microcuries of U-238 and 50 microcuries of Np-237; and
  - D. Pursuant to the Act and 10 CFR Parts 30 and 70, to possess, but not separate, such byproduct and special nuclear material as may be produced by the operation of the facility.
3. This license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations: 10 CFR Part 20, Section 30.34 of 10 CFR Part 30, Section 40.41 of 10 CFR Part 40, Sections 50.54 and 50.59 of 10 CFR Part 50, and Section 70.32 of 10 CFR Part 70, and 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 below:

A. Maximum Power Level

The licensee is authorized to operate the facility at reactor core power levels not in excess of 2441 megawatts (thermal).

B. Technical Specifications

The Technical Specifications contained in Appendix A attached hereto are hereby incorporated in this license. The licensee shall operate the facility at reactor core power levels not in excess of 2441 megawatts thermal in accordance with the Technical Specifications, and may make changes therein only when authorized by the Commission in accordance with the provisions of Section 50.59 of 10 CFR Part 50.

C. Reports

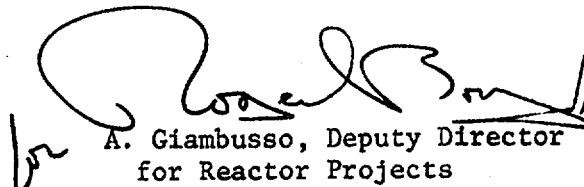
The licensee shall make certain reports in accordance with the requirements of the Technical Specifications.

D. Records

The licensee shall keep facility operating records in accordance with the requirements of the Technical Specifications.

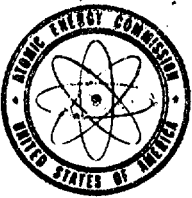
4. This license is effective as of the date of issuance, and shall expire at midnight June 25, 2008.

FOR THE ATOMIC ENERGY COMMISSION

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

Enclosure  
Appendix A -  
Technical Specifications

Date of Issuance: JAN 29 1973



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

Docket Nos. 70-1249  
70-1295  
50-280  
50-287

AMENDMENT TO INDEMNITY AGREEMENT NO. B-45

AMENDMENT NO. 5

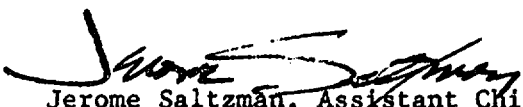
Effective JAN 29 1973, Indemnity Agreement No. B-45, between Virginia Electric and Power Company and the Atomic Energy Commission dated August 11, 1970, as amended, is further amended as follows:

Item 3 of the Attachment to the indemnity agreement is deleted in its entirety and the following substituted therefor:

Item 3 - License number or numbers

SNM-1191	(From 12:01 a.m., August 11, 1970 to 12:00 midnight, May 24, 1972 inclusive)	
SNM-1264	(From 12:01 a.m., August 20, 1971 to 12:00 midnight, <u>JAN 28 1973</u> inclusive)	
DPR-32	(From 12:01 a.m., May 25, 1972	)
DPR-37	(From 12:01 a.m., <u>JAN 29 1973</u>	)

FOR THE UNITED STATES ATOMIC ENERGY COMMISSION

  
Jerome Saltzman, Assistant Chief  
Office of Antitrust & Indemnity  
Directorate of Licensing

Accepted \_\_\_\_\_, 1973

By \_\_\_\_\_  
VIRGINIA ELECTRIC AND POWER COMPANY

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 50-281

VIRGINIA ELECTRIC AND POWER COMPANY  
(Surry Power Station Unit No. 2)

NOTICE OF ISSUANCE OF A FACILITY OPERATING LICENSE

Notice is hereby given that the Atomic Energy Commission (the Commission) has issued Facility Operating License No. DPR-37 to Virginia Electric and Power Company (the licensee) which authorizes the licensee to operate the Surry Power Station, Unit No. 2 at reactor core power levels not in excess of 2441 megawatts (thermal), in accordance with the provisions of the license and the Technical Specifications. The Surry Power Station Unit No. 2 is a pressurized water nuclear reactor located at the licensee's site in Surry County, Virginia.

The Notice of Consideration of Issuance of Facility Operating License was published in the Federal Register on March 28, 1972 (37 F. R. 6347). The notice indicated that the Commission would consider the issuance of a facility operating license upon submission of a favorable safety evaluation on the application by the Commission's Division of Reactor Licensing (now Directorate of Licensing), the completion of the environmental review required by the Commission's regulations in 10 CFR Part 50, Appendix D, and a finding by the Commission that the application for the facility license (as amended) complies with the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations in 10 CFR

Chapter 1. The Notice provided that within thirty (30) days from the date of its publication in the Federal Register, Virginia Electric and Power Company could file a request for a hearing and any person whose interest may be affected by this proceeding could file a petition for leave to intervene (1) with respect to whether, considering those matters covered by Appendix D to 10 CFR Part 50, the provisional construction permit should be continued, modified, terminated, or appropriately conditioned to protect environmental values; and (2) with respect to the issuance of a facility operating license. No request for hearing or petitions to intervene were filed.

The Commission's regulatory staff has inspected the facility and has determined that for operation as authorized by this license, the facility has been constructed in accordance with the application, as amended, the provisions of Provisional Construction Permit No. CPPR-44, as amended, the Atomic Energy Act of 1954, as amended, and the Commission's regulations. The licensee has submitted proof of financial protection in satisfaction of the requirements of 10 CFR Part 140.

The Director of Regulation has made the findings which are set forth in the license, and has concluded that the application, as amended, complies with the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations in 10 CFR Chapter 1, and that the issuance of the license will not be inimical to the common defense and security or to the health and safety of the public.



The license is effective as of the date of issuance and shall expire on June 25, 2008, unless extended for good cause shown or upon the earlier issuance of a superseding operating license.

A copy of (1) Facility Operating License No. DPR-37, complete with Technical Specifications, (2) the applicant's Environmental Report dated December 1, 1971 and Revision 1 to Environmental Report Supplement thereto dated February 29, 1972, (3) the report of the Advisory Committee on Reactor Safeguards, dated December 17, 1971, (4) the "Safety Evaluation by the Division of Reactor Licensing (now Directorate of Licensing), U. S. Atomic Energy Commission in the Matter of Virginia Electric and Power Company, Surry Power Station Units 1 and 2," dated February 23, 1971, (5) the Final Safety Analysis Report and amendments thereto, (6) the Draft Detailed Statement on Environmental Considerations, dated March 1972, and (7) the Final Detailed Statement on Environmental Considerations, dated June 1972, are available for public inspection at the Commission's Public Document Room at 1717 H Street, N.W., Washington, D. C. Copies of items (1), (4), (6), and (7) 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 29th day of January 1973.

FOR THE ATOMIC ENERGY COMMISSION



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