

Docket Nos. 50-338  
and 50-339

NOV 18 1983

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	LTremper

Mr. W. L. Stewart  
Vice President - Nuclear Operations  
Virginia Electric and Power Company  
Post Office Box 26666  
Richmond, Virginia 23261

Dear Mr. Stewart:

The Commission has issued the enclosed Amendment Nos. 49 and 33 to Facility Operating License No. NPF-4 and No. NPF-7 for the North Anna Power Station, Units No. 1 and No. 2 (NA-1&2). The amendments revise the licenses in response to your letters dated March 10, 1983 (Serial No. 319) and October 17, 1983 (Serial No. 319A) and our discussions with you regarding this matter. The amendments are effective within 30 days of the date of issuance.

The amendments revise the Facility Operating Licenses No. NPF-4 and No. NPF-7 for NA-1&2 to reflect the partial ownership of NA-1&2 by the Old Dominion Electric Cooperative (ODEC). The amount of the partial ownership is 11.6 percent per unit (NA-1&2) and includes thirteen (13) of the fifteen (15) member cooperatives of ODEC and is delineated in your submittal (Revised Basic Agreements) dated October 17, 1983.

As stated in your submittals dated March 10, 1983 and October 17, 1983, ODEC will have 11.6 percent partial ownership in NA-1&2. However, responsibility for power operations, maintenance and maintaining NA-1&2 in a safe shutdown condition in accordance with the Commission's rules and regulations is limited to the original licensee of NA-1&2, specifically, the Virginia Electric and Power Company. Thus, we conclude that the requested change will have no impact on the safety of plant operations at NA-1&2.

A copy of the Safety Evaluation is enclosed. The notice of issuance will be included in the Commission's next monthly Federal Register notice. Also enclosed are three copies of Indemnity Agreement B-80, Amendment No. 8 for signature and return of one signed copy.

Sincerely,

Original signed by

Leon B. Engle, Project Manager  
Operating Reactors Branch #3  
Division of Licensing

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PDR ADQCK 05000338  
P PDR

Enclosures:

1. Amendment No. 49 to NPF-4
  2. Amendment No. 33 to NPF-7
  3. Safety Evaluation
  4. Idemnity Agreements
- cc: See next page

\*See previous page for concurrences.

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11/17/83

*see note*  
*no copy of enclosure*  
TRutbey  
OELD  
JMcGurren  
11/14/83

ORB#3:DL*	ORB#3:DL*	SAB Anti-Trust*SAB*	SP Fin. Qual.*	SP Idemnity*
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10/26/83	10/26/83	10/26/83	10/28/83	11/9/83

Docket Nos. 50-338  
and 50-339

Mr. W. L. Stewart  
Vice President - Nuclear Operations  
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Dear Mr. Stewart:

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The amendments revise the Facility Operating Licenses No. NPF-4 and No. NPF-7 for NA-1&2 to reflect the partial ownership of NA-1&2 by the Old Dominion Electric Cooperative (ODEC). The amount of the partial ownership is 11.6 percent per unit (NA-1&2) and includes thirteen (13) of the fifteen (15) member cooperatives of ODEC and is delineated in your submittal (Revised Basic Agreements) dated October 17, 1983.

As stated in your submittals dated March 10, 1983 and October 17, 1983, ODEC will have 11.6 percent partial ownership in NA-1&2. However, responsibility for power operations, maintenance and maintaining NA-1&2 in a safe shutdown condition in accordance with the Commission's rules and regulations is limited to the original licensee of NA-1&2, specifically, the Virginia Electric and Power Company. Thus, we conclude that the requested change will have no impact on the safety of plant operations at NA-1&2.

A copy of the Safety Evaluation is enclosed. The notice of issuance will be included in the Commission's next monthly Federal Register notice.

Sincerely,

Leon B. Engle, Project Manager  
Operating Reactors Branch #3  
Division of Licensing

Enclosures:

1. Amendment No. to NPF-4
2. Amendment No. to NPF-7
3. Safety Evaluation

cc: See next page

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ATOalston  
10/26/83

SP Fin. Qual.  
JPeterson  
10/28/83

SR Idemity  
IDnitz  
11/9/83

*See clips on transmittal letter + SER p. 2*

Virginia Electric and Power Company

cc:

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Philadelphia, Pennsylvania 19104

Atomic Safety and Licensing  
Appeal Board Panel  
U.S. Nuclear Regulatory Commission  
Washington, D. C. 20555

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Resident Inspector/North Anna  
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Mr. J. H. Ferguson  
Executive Vice President - Power  
Virginia Electric and Power Company  
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Mrs. Margaret Dietrich  
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U.S. Environmental Protection Agency  
Region III Office  
ATTN: Regional Radiation Representative  
Curtis Building  
6th and Walnut Streets  
Philadelphia, Pennsylvania 19106

Regional Administrator  
Nuclear Regulatory Commission, Region II  
Office of Executive Director for Operations  
101 Marietta Street, Suite 3100  
Atlanta, Georgia 30303

Old Dominion Electric Cooperative  
c/o Executive Vice President  
5601 Chamberlayne Road  
Richmond, Virginia 23227



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

VIRGINIA ELECTRIC AND POWER COMPANY

OLD DOMINION ELECTRIC COOPERATIVE

DOCKET NO. 50-338

NORTH ANNA STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 49  
License No. NPF-4

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Virginia Electric and Power Company (the licensee) dated March 10, 1983 as supplemented October 17, 1983 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, Facility Operating License No. NPF-4 is hereby amended by adding "Old Dominion Electric Cooperative" to the heading of the license; by revising paragraphs 1.A, 1.D, and 1.E; by adding paragraph 1.I; and by revising paragraphs 2.A, 2.B, 2.C, 2.C.(1), 2.C.(2), 2.C.(3), 2.C.(4), 2.C.(5), 2.D.(1), 2.D.(2), and 2.E to read as follows.

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- 1.A. The issuance of this license amendment issued to the Virginia Electric and Power Company (VEPCO) and the Old Dominion Electric Cooperative (ODEC) for the North Anna Power Station, Unit No. 1 (facility) 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;
- 1.D. VEPCO is technically and financially qualified to engage in the activities authorized by this amendment to the operating license in accordance with the rules and regulations of the Commission;
- 1.E. VEPCO and the Old Dominion Electric Cooperative (ODEC) have satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Idemnity Agreements," of the Commission's regulations;
- 1.I. The Old Dominion Electric Cooperative is a partial financial owner of the facility and will not operate the facility.
- 2.A. This amendment to the license applies to the North Anna Power Station, Unit No. 1, a pressurized water reactor and associated equipment (the facility), owned by the Virginia Electric and Power Company and the Old Dominion Electric Cooperative. The facility is located near Mineral, in Louisa County, Virginia, and is described in the "Final Safety Analysis Report" as supplemented and amended (Amendments 17 through 64) and the Environmental Report as supplemented and amended (Supplements 1 through 4, Appendix L).
- 2.B. VEPCO is authorized to perform steam generator moisture carryover studies at the North Anna Power Station. These studies involve the use of an aqueous tracer solution of two (2) curies of sodium-24. VEPCO personnel will be in charge of conducting these studies and be knowledgeable in the procedures. VEPCO will impose personnel exposure limits, posting, and survey requirements in conformance with those in 10 CFR Part 20 to minimize personnel exposure and contamination during the studies. Radiological controls will be established in the areas of the chemical feed, feedwater, steam, condensate and sampling systems where the presence of the radioactive tracer is expected to warrant such controls. VEPCO will take special precautions to minimize radiation exposure and contamination during both the handling of the radioactive tracer prior to injection and the taking of system samples following injection of the tracer. VEPCO will insure that all regulatory requirements for liquid discharge are met during disposal of all sampling effluents and when reestablishing continuous blowdown from the steam generators after completion of the studies.

2.C. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses:

- 2.C.(1) Pursuant to Section 103 of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities," VEPCO and ODEC to possess and VEPCO to use, and operate the facility at the designated location in Louisa County, Virginia in accordance with the procedures and limitations set forth in this amendment to the license;
- 2.C.(2) Pursuant to the Act and 10 CFR Part 70, VEPCO to receive, possess and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as supplemented and amended;
- 2.C.(3) Pursuant to the Act and 10 CFR Parts 30, 40 and 70, VEPCO to receive possess and use at any time byproducts, source and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;
- 2.C.(4) Pursuant to the Act and 10 CFR Parts 30, 40 and 70, VEPCO to receive, possess and use in amounts as required any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components; and
- 2.C.(5) Pursuant to the Act and 10 CFR Parts 30 and 70, VEPCO to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility.

2.D.(1) Maximum Power Level

VEPCO is authorized to operate the North Anna Power Station, Unit No. 1, at reactor core power levels not in excess of 2775 megawatts (thermal).

2.D.(2) Technical Specifications

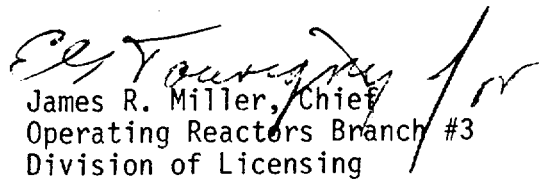
The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 49, are hereby incorporated in the license. VEPCO shall operate the facility in accordance with the Technical Specifications.

2.E. Physical Protection

VEPCO shall fully implement and maintain in effect all provisions of the following Commission approved documents including amendments and changes made pursuant to the authority of 10 CFR 50.54(p). These approved documents consist of information withheld from public disclosure pursuant to 10 CFR 2.790(d):

3. This license amendment is effective within 30 days of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

  
James R. Miller, Chief  
Operating Reactors Branch #3  
Division of Licensing

Date of Issuance: November 18, 1983



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

VIRGINIA ELECTRIC AND POWER COMPANY

OLD DOMINION ELECTRIC COOPERATIVE

DOCKET NO. 50-339

NORTH ANNA STATION, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 33  
License No. NPF-7

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Virginia Electric and Power Company (the licensee) dated March 10, 1983 as supplemented October 17, 1983 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, Facility Operating License No. NPF-7 is hereby amended by adding "Old Dominion Electric Cooperative" to the heading of the license; by revising paragraph 1.F; by adding paragraph 1.J; by revising paragraphs 2, 2.A, 2.B, 2.B.(1), 2.B.(2), 2.B.(3), 2.B.(4), 2.B.(5), 2.C.(2), and 2.E to read as follows.



- 1.F. VEPCO and the Old Dominion Electric Cooperative (ODEC) have satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Idemnity Agreements," of the Commission's regulations;
- 1.J. The Old Dominion Electric Cooperative is a partial financial owner of the facility and will not operate the facility.
2. Pursuant to approval by the Nuclear Regulatory Commission at a meeting on August 20, 1980, the License for Fuel-Loading and Low-Power Testing issued on April 11, 1980 is superseded by Facility Operating License NPF-7 hereby issued to Virginia Electric and Power Company (VEPCO) and the Old Dominion Electric Cooperative (ODEC) to read as follows:
  - 2.A. This amendment to the license applies to the North Anna Power Station, Unit No. 2, a pressurized water nuclear reactor and associated equipment (the facility), owned by VEPCO and ODEC. The facility is located near Mineral, in Louisa County, Virginia, and is described in VEPCO's Final Safety Analysis Report as supplemented and amended (Amendments 17 through 69) and the Environmental Report as supplemented and amended (Supplements 1 through 4).
  - 2.B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses:
    - 2.B.(1) Pursuant to Section 103 of the Act and 10 CFR Part 50, VEPCO and ODEC to possess and VEPCO to use, and operate the facility at the designated location in Louisa County, Virginia in accordance with the procedures and limitations set forth in this license;
    - 2.B.(2) Pursuant to the Act and 10 CFR Part 70, VEPCO to receive, possess and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as supplemented and amended;
    - 2.B.(3) Pursuant to the Act and 10 CFR Parts 30, 40 and 70, VEPCO to receive possess and use at any time byproduct, source and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;
    - 2.B.(4) Pursuant to the Act and 10 CFR Parts 30, 40 and 70, VEPCO to receive, possess and use in amounts as required any byproduct, source or special nuclear material without

restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components; and

2.B.(5) Pursuant to the Act and 10 CFR Parts 30 and 70, VEPCO to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility.

2.C.(2) Technical Specifications

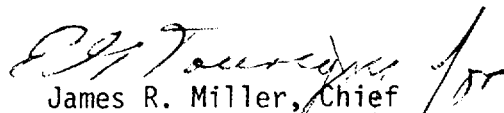
The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 33, are hereby incorporated in the license. VEPCO shall operate the facility in accordance with the Technical Specifications.

2.E. Physical Protection

VEPCO shall fully implement and maintain in effect all provisions of the following Commission approved documents including amendments and changes made pursuant to the authority of 10 CFR 50.54(p). These approved documents consist of information withheld from public disclosure pursuant to 10 CFR 2.790(d):

3. This license amendment is effective within 30 days of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

  
James R. Miller, Chief  
Operating Reactors Branch #3  
Division of Licensing

Date of Issuance: November 18, 1983



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 49 AND NO. 33 TO

FACILITY OPERATING LICENSE NOS. NPF-4 AND NPF-7

VIRGINIA ELECTRIC AND POWER COMPANY

OLD DOMINION ELECTRIC COOPERATIVE

NORTH ANNA POWER STATION, UNITS NO. 1 AND NO. 2

DOCKET NOS. 50-338 AND 50-339

Introduction:

By letter dated March 10, 1983 (Serial No. 319), as supplemented by letter dated October 17, 1983 (Serial No. 319A), the Virginia Electric and Power Company (VEPCO) proposed a change to Facility Operating Licenses NPF-4 and NPF-7 for the North Anna Power Station, Units No. 1 and No. 2 (NA-1&2), respectively. The proposed change would include the name of the Old Dominion Electric Cooperative (ODEC) as a partial owner of NA-1&2 and would be so stated in the appropriate license conditions of the facility operating licenses for NA-1&2.

VEPCO is selling a portion of NA-1&2 to ODEC (11.6 percent ownership per unit). As part of this sale, ODEC must conform with the rules and regulations of the Commission and the stipulations of the NA-1&2 operating licenses. For these reasons, ODEC must be included in the appropriate stipulations of the license conditions for the NA-1&2 Operating Licenses.

Our discussion and evaluation of VEPCO's proposed change is provided below.

Discussion:

ODEC is a generation and transmission cooperative with 15 member cooperatives. The principal business office of ODEC is located in Richmond, Virginia. Only thirteen (13) of fifteen (15) member cooperatives will participate in the 11.6 percent ownership of NA-1&2. ODEC was chartered under the laws of the Commonwealth of Virginia on September 23, 1948. ODEC, through its member cooperatives, serves about 37 percent of the land area in Virginia, including 65 of the State's 95 counties. Member cooperatives also serve nine (9) counties in Maryland, two (2) counties in Delaware, and two (2) counties in West Virginia.

The principal officers and directors of ODEC as specified in the VEPCO submittal dated March 10, 1983 and October 17, 1983 are citizens of the United States, and ODEC is not owned, controlled or dominated by any alien, a foreign corporation or a foreign government.

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While ODEC will be a partial owner of NA-1&2, ODEC will not operate the facility. Power operations, maintenance and maintaining NA-1&2 in a safe shutdown condition will continue to be the sole responsibility of the present licensee, VEPCO. Corporate and facility personnel of VEPCO will continue to have the sole responsibility for all matters related to the safe operation of NA-1&2.

VEPCO's submittal dated March 10, 1983, provided the Purchase, Construction and Ownership Agreement, the Interconnection and Operating Agreement and the Nuclear Fuel Agreement, all dated as of December 28, 1982 between VEPCO and ODEC.

By letter dated October 17, 1983, VEPCO submitted the final Basic Agreements as specified above to reflect the undivided ownership interest in NA-1&2 (11.6 percent per unit) and the thirteen (13) participating cooperative members within ODEC.

It is noted that the VEPCO submittals did not address either Financial Qualification Requirements or Antitrust Information for ODEC. This information is not required by the Commission for this amendment request and is so stated in our evaluation below.

#### Evaluation:

On March 11, 1982 the Commission approved SECY-82-21, a final rule eliminating entirely the financial qualification review and findings for "electric utility" applicants and providing that the financial qualifications of an electric utility applicant are not among the issues to be considered by atomic safety and licensing boards in construction permit or operating licensing proceedings. This aspect of the rule was effective immediately upon publication in the Federal Register and applied to pending licensing proceedings and the issues or contentious raised therein.

Pursuant to final regulations 10 CFR 50.2(x) and 50.33(f), 47 FR 13750, (March 31, 1982), electric utility applicants and licensees will no longer be required to submit information on their financial qualifications and the staff will not conduct any financial qualification reviews of such applicants or licensees. "Electric utility" includes investor-owned utilities, public utility districts, municipalities, rural electric cooperatives, and state or federal agencies, and associations of these entities. We find, as defined above, that ODEC is an electric utility.

Pursuant to 10 CFR 50.33a, paragraph 3, ODEC does not need to provide anti-trust information since they currently have a generating capacity of less than 200 Megawatts-electrical.

In our Safety Evaluation Report (SER) dated June 1976 related to the Operation of NA-1&2 and in our Supplement SER No. 7 dated August 1977 we addressed the financial protection and indemnity requirements for NA-1&2. We have determined that during the term of the agreement (Partial ownership of NA-1&2 by ODEC), the parties involved, specifically VEPCO and ODEC, will comply with all of the applicable requirements of 10 CFR Part 140 including proof of financial protection in the requisite amounts and in accordance with the indemnity requirements for NA-1&2.

Finally, as stated above, VEPCO will have sole responsibility for operating and maintaining NA-1&2 in a safe condition and in accordance with the rules and regulations of the Commission.

Therefore, based on all of the above, we find acceptable the inclusion of the Old Dominion Electric Cooperative in the appropriate stipulations of Facility Operating Licenses No. NPF-4 and No. NPF-7 for the North Anna Power Station, Units No. 1 and No. 2.

#### Environmental Consideration

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 impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of the amendments.

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

Date: November 18, 1983

Principal Contributor:  
L. Engle



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

Docket Nos. 50-338  
50-339

AMENDMENT TO INDEMNITY AGREEMENT NO. B-80  
AMENDMENT NO 8

**NOV 18 1983**

Effective \_\_\_\_\_, Indemnity Agreement No. B-80, between Virginia Electric and Power Company and the Nuclear Regulatory Commission, dated April 16, 1976, as amended, is hereby further amended as follows:

Wherever the name "Virginia Electric and Power Company" appears in the Indemnity Agreement, the following named licensee is added:

"Old Dominion Electric Cooperative"

FOR THE UNITED STATES NUCLEAR REGULATORY COMMISSION

A handwritten signature in black ink, appearing to read "Jerome Saltzman".

Jerome Saltzman, Assistant Director  
State and Licensee Relations  
Office of State Programs

Accepted \_\_\_\_\_, 1983

Accepted \_\_\_\_\_, 1983

By \_\_\_\_\_  
Virginia Electric and Power Company

By \_\_\_\_\_  
Old Dominion Electric Cooperative



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

Docket Nos. 50-338  
50-339

AMENDMENT TO INDEMNITY AGREEMENT NO. B-80  
AMENDMENT NO 8

Effective **NOV 18 1983**, Indemnity Agreement No. B-80, between Virginia Electric and Power Company and the Nuclear Regulatory Commission, dated April 16, 1976, as amended, is hereby further amended as follows:

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"Old Dominion Electric Cooperative"

FOR THE UNITED STATES NUCLEAR REGULATORY COMMISSION

Jerome Saltzman, Assistant Director  
State and Licensee Relations  
Office of State Programs

Accepted \_\_\_\_\_, 1983

Accepted \_\_\_\_\_, 1983

By \_\_\_\_\_  
Virginia Electric and Power Company

By \_\_\_\_\_  
Old Dominion Electric Cooperative



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

Docket Nos. 50-338  
50-339

AMENDMENT TO INDEMNITY AGREEMENT NO. B-80  
AMENDMENT NO 8

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FOR THE UNITED STATES NUCLEAR REGULATORY COMMISSION

Jerome Saltzman, Assistant Director  
State and Licensee Relations  
Office of State Programs

Accepted \_\_\_\_\_, 1983

Accepted \_\_\_\_\_, 1983

By \_\_\_\_\_  
Virginia Electric and Power Company

By \_\_\_\_\_  
Old Dominion Electric Cooperative