

MAY 8 1978

Docket No. 50-338

Virginia Electric & Power Company  
ATTN: Mr. W. L. Proffitt  
Senior Vice President - Power  
P. O. Box 26666  
Richmond, Virginia 23261

Gentlemen:

SUBJECT: ISSUANCE OF AMENDMENT NO. 4 TO FACILITY OPERATING LICENSE NPF-4  
NORTH ANNA POWER STATION, UNIT NO. 1

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 4 to Facility Operating License NPF-4.

This Amendment deletes two (2) conditions from Amendment No. 3 to NPF-4. These conditions are 2.D.(3)a and 2.D.(3)n. The conditions and their description and deletion are described in the enclosed Safety Evaluation supporting Amendment No. 4 to NPF-4.

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

Sincerely,

Original Signed By  
O. D. Parr  
Olan D. Parr, Chief  
Light Water Reactors Branch No. 3  
Division of Project Management

Enclosures:

- 1. Amendment No. 4 to NPF-4
- 2. Federal Register Notice
- 3. Safety Evaluation

See previous yellow for concurrences:

*Cond. 1*  
*GD*

OFFICE >	DPM/LWR-3	LWR-3	OELD	DPM/LWR-3 BC		
SURNAME >	Mushbrock	ADromerick	Dan Swanson	ODParr		
DATE >	5/7/78	5/3/78	5/4/78	5/8/78		

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Docket No. 50-338	I&E (5)	P. Leech, DSE
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Virginia Electric & Power Company  
 ATIN: Mr. W. L. Proffitt  
 Senior Vice President - Power  
 P. O. Box 26666  
 Richmond, Virginia 23261

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Gentlemen:

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

Sincerely,

Roger S. Boyd, Director  
 Division of Project Management  
 Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 4 to NPF-4
2. Federal Register Notice
3. Safety Evaluation

OFFICE >	LWR #3:LA/ LWR #3:PM	OELD <i>DL</i>	LWR #3:BC	LWR:A/D	DPM:A/D	DPM:D
SURNAME >	M. Rushbrook A. Dromerick	D. SWANSON	O. Parr	D. Vassallo	R. DeYoung	R. Boyd
DATE >	5/1/78	5/3/78	5/1/78	5/4/78	4/ /78	4/ /78

ATTN: Mr. W. L. Priddy  
Senior Vice President - Power  
P. O. Box 26666  
Richmond, Virginia 23261

MAY 08 1978

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Washington, D. C. 20555

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Washington, D.C. 20555

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Associate Director  
110 Evans Lane  
Oak Ridge, Tennessee 37830

Virginia Electric & Power Company

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cc: Mr. A. D. Johnson, Chairman  
Board of Supervisors of  
Louisa County  
Trevillians, Virginia 23170

Ms. Susan T. Wilburn  
Commonwealth of Virginia  
Council on the Environment  
903 9th Street Office Building  
Richmond, Virginia 23219

Mr. George Pence  
U. S. Environmental Protection Agency  
Region III Office  
Curtis Building  
6th & Walnut Streets  
Philadelphia, Pennsylvania 19106

Director, Technical Assessment Division  
Office of Radiation Programs (AW-459)  
US EPA  
Crystal Mall #2  
Arlington, Virginia 20460

VIRGINIA ELECTRIC AND POWER COMPANY

DOCKET NO. 50-338

NORTH ANNA POWER STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

License No. NPF-4  
Amendment No. 4

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The issuance of this license amendment to the Virginia Electric and Power Company for the North Anna Power Station, Unit No. 1 complies with 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 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. The issuance of this amendment is in accordance with Appendix D of 10 CFR Part 50 of the Commission's regulations and all applicable requirements have been satisfied.

OFFICE >						
SURNAME >						
DATE >						

2. Accordingly, the license is amended by deleting the following conditions contained in Operating License NPF-4 Amendment 3:

a. Paragraph 2.D.(3)a

b. Paragraph 2.D.(3)n

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

FOR THE NUCLEAR REGULATORY COMMISSION

Original Signed by

O. D. Parr

Olan D. Parr, Chief

Light Water Reactors Branch No. 3

Division of Project Management

Date of Issuance: MAY 08 1978

See previous yellow for concurrences:

OFFICE >	DPM/LWR-3	DPM/WR-3	OELD	LWR-3 BC		
SURNAME >	MBushbrook	ADromerick	D. Swanson	ODParr		
DATE >	5/7/78	5/1/78	5/3/78	5/8/78		

2. Accordingly, the license is amended by deleting the following conditions contained in Operating License NPF-4 Amendment 3:
  - a. Paragraph 2.D.(3)a
  - b. Paragraph 2.D.(3)n
3. This license amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Roger S. Boyd, Director  
Division of Project Management  
Office of Nuclear Reactor Regulation

Date of Issuance:

OFFICE	DPM/LWR-3	DPM/LWR-3	OELD <i>JK</i>	DPM/LWR-3	AD/LWR DD/DPM	LWR:DPM
SURNAME	MRushbrook	AKromerick	DSWANSON	ODP Arr	DVassallo	RSE Boyd
DATE	5/1/78	5/1/78	5/3/78	5/4/78	5/4/78	5/1/78



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

VIRGINIA ELECTRIC AND POWER COMPANY

DOCKET NO. 50-338

NORTH ANNA POWER STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

License No. NPF-4  
Amendment No. 4

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The issuance of this license amendment to the Virginia Electric and Power Company for the North Anna Power Station, Unit No. 1 complies with 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 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. The issuance of this amendment is in accordance with Appendix D of 10 CFR Part 50 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by deleting the following conditions contained in Operating License NPF-4 Amendment 3:
  - a. Paragraph 2.D.(3)a
  - b. Paragraph 2.D.(3)n
3. This license amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

*Olan D. Parr*  
Olan D. Parr, Chief  
Light Water Reactors Branch No. 3  
Division of Project Management

Date of Issuance: MAY 08 1978

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-338

VIRGINIA ELECTRIC AND POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 4 to the Facility Operating License No. NPF-4, issued to Virginia Electric and Power Company, which deletes certain conditions contained in Facility Operating License NPF-4 Amendment No. 3. The amendment is effective as of its date of issuance.

The amendment deletes 2 conditions regarding tests and procedures to be followed prior to achieving full power.

The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in Title 10 CFR Chapter I, which are set forth in the license amendment. The Commission has determined that the amendment does 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, it has further been concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR Section 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 this amendment.

OFFICE >						
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For further details with respect to this action, see (1) Virginia Electric and Power Company letters, dated April 12, 1978 and April 14, 1978, (2) Amendment No. 4 to License No. NPF-4, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. 20555 and at the Board of Supervisor's Office, Louisa County Courthouse, Louisa, Virginia 23093 and at the Alderman Library, Manuscripts Department, University of Virginia, Charlottesville, Virginia 22901. A copy of items (2) and (3) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Project Management.

Dated at Bethesda, Maryland this 8<sup>th</sup> day of May, 1978.

FOR THE NUCLEAR REGULATORY COMMISSION

Original Signed by  
O. D. Parr

Olan D. Parr, Chief  
Light Water Reactors Branch No. 3  
Division of Project Management

OFFICE >	DPM/LWR-3	LWR-3	LWR-3	OELD <i>OK</i>		
SURNAME >	MRushbrook	ADerrick	ODParr	DSWANSON		
DATE >	5/1/78	5/1/78	5/4/78	5/3/78		

MAY 0 8 1978

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 4 TO LICENSE NO. NPF-4

VIRGINIA ELECTRIC AND POWER COMPANY

A. EVALUATION IN SUPPORT OF DELETING CONDITION 2.D.(3)a OF OPERATING LICENSE NPF-4 AMENDMENT 3

INTRODUCTION

Paragraph 2.D.(3)a of facility operating license No. NPF-4 Amendment 3 for the North Anna Power Station, Unit 1, issued April 1, 1978, stipulates as a condition to the license that:

"Virginia Electric and Power Company shall perform secondary flow stability tests prior to achieving 100 percent power. The procedure for these tests shall be reviewed and approved by the Office of Nuclear Reactor Regulation prior to initiation of the tests."

EVALUATION

In Section 10.3 of the North Anna Power Station, Units 1 and 2 Safety Evaluation Report, we stated that we would require the applicant to perform tests to demonstrate that uncovering the modified feedwater sparger and subsequent refill via the auxiliary feedwater system over the complete spectrum of allowable refill rates will not result in unacceptable damage from feedwater hammer.

In a letter dated April 12, 1978, the Virginia Electric and Power Company submitted the procedures and test results of the feedwater hammer tests which were conducted in March, 1977.

Based on our review of the test procedures and test results we have determined that the tests were conducted in accordance with our requirements and the test results are acceptable. Therefore, Condition 2.D.(3)a can be deleted from Operating License NPF-4 Amendment 3.

B. EVALUATION IN SUPPORT OF DELETING CONDITION 2.D.(3)n OF OPERATING LICENSE NPF-4 AMENDMENT 3

INTRODUCTION

Paragraph 2.D.(3)n of facility operating License No. NPF-4 Amendment 3 for the North Anna Power Station, Unit 1, issued April 1, 1978, stipulates as a condition to the license that:

MAY 0 8 1978

"The Virginia Electric and Power Company shall incorporate by April 15, 1978, procedures which ensure that in the long-term cooling mode following a loss-of-coolant accident redundant pumps are secured once stable conditions are established in order to maintain a high degree of reliability with regard to system capability and flexibility for long-term cooling."

EVALUATION

In a letter dated April 14, 1978, the Virginia Electric and Power Company advised us that Emergency Procedure 1-EP-2 has been revised to require that redundant recirculation spray and safety injection pumps be secured once stable conditions are established approximately 24 to 48 hours following a loss-of-coolant accident.

Our Office of Inspection and Enforcement has verified that a station emergency procedure was revised on April 11, 1978, to incorporate our requirements. Therefore, Condition 2.D.(3)n can be deleted from Operating License NPF-4 Amendment 3.

C. ENVIRONMENTAL CONSIDERATION

We have determined that the amendment does 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 amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR Section 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 this amendment.

D. CONCLUSION

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered or a significant decrease in any safety margin, it does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public 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 this amendment will not be inimical to the common defense and security or to the health and safety of the public. Also, we reaffirm our conclusions as otherwise stated in our Safety Evaluation Report and its Supplements.

Dated: MAY 0 8 1978