

AUG 3 1979

Docket No. 50-338

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

Dear Mr. Proffitt:

SUBJECT: ISSUANCE OF AMENDMENT NO. 13 TO FACILITY OPERATING LICENSE NO.
NPF-4 - NORTH ANNA POWER STATION, UNIT NO. 1

The Nuclear Regulatory Commission (the Commission) has issued the enclosed Amendment No. 13 to Facility Operating License NPF-4.

This Amendment consists of a one time extension to the surveillance frequency for response time testing of systems, safety injection and containment depressurization actuation testing as specified in the Technical Specification to Appendix A in response to your application, dated March 13, 1979, as supplemented by letters, dated July 23, 1979, and July 31, 1979. In addition, this amendment deletes conditions 2.D.(3)d and 2.D.(3)e issued with Amendment No. 5 to Facility Operating License NPF-4.

Our Safety Evaluation on these matters is enclosed.

Also enclosed is a copy of the notice concerning the issuance of Amendment No. 13 which has been forwarded to the Office of the Federal Register for publication.

Sincerely,

Original Signed by
O. D. Parr

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

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Enclosures:

1. Amendment No. 13 to NPF-4
2. Safety Evaluation

3. Federal Register Notice	LWR #3:LA	LWR #3:PM	OELD	LWR #3:BC
OFFICE>	MRushbrook/LM	McDonnell	DSwanson	OParr
SURNAME>	7/3/79	7/3/79	8/3/79	8/3/79
DATE>				

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Mr. W. L. Proffitt

- 3 -

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U.S. Environmental Protection Agency
Crystal Mall #2
Arlington, Virginia 20460

Mr. George Pence
U. S. Environmental Protection Agency
Region III Office
ATTN: EIS Coordinator
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Philadelphia, Pennsylvania 19106

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

Mr. J. B. Jackson, Jr.
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903 9th Street Office Building
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Attorney General
1101 East Broad Street
Richmond, Virginia 23219

VIRGINIA ELECTRIC AND POWER COMPANY

DOCKET NO. 50-338

NORTH ANNA POWER STATION, UNIT NO. 1

FACILITY OPERATING LICENSE

License No. NPF-4
Amendment No. 13

1. The Nuclear Regulatory Commission (the Commission) has found that:

- A. The application for amendment by Virginia Electric and Power Company (licensee) dated March 13, 1979 and supplemented by letters, dated July 23, 1979 and July 31, 1979, comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's regulations as 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 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, the license is hereby amended as follows:

Delete Conditions:

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2.D.(3)d and 2.D.(3)e

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Add condition 2.D.(3)p to read as follows:

2.D(3)p. The end of the current surveillance period for the Surveillance Requirements listed below may be extended beyond the time limit specified by Technical Specification 4.0.2.a. In each case, the required surveillance shall be completed by the revised due date. Upon accomplishment of the surveillance, the provisions of Technical Specification 4.0.2.a shall apply.

(1) Specifications: 4.3.1.1.3
4.6.2.1.c
4.6.2.2.1.c
4.6.2.3.c
4.6.3.1.2.a
4.6.3.1.2.b
4.7.4.1.d.2
4.7.8.1.d.2

Revised due date: Prior to startup after first refueling outage which will begin no later than September 15, 1979.

3. This license amendment is effective as of the date of its 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: AUG 3 1979

OFFICE	LWR #3:LA	LWR #3:LPM	DOR	OELD	LWR #3:BC
SURNAME	MRushbrock/LM	ADromerick	DBrinkman	DSwanson	ODParr
DATE	8/3/79	8/3/79	8/1/79	8/3/79	8/3/79

AUG 3 1979

SAFETY EVALUATION BY THE OFFICE OF

NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 13 TO

LICENSE NO. NPF-4

(VIRGINIA ELECTRIC AND POWER COMPANY)

A. Evaluation of Extension to the Surveillance Frequency of Appendix A - Technical Specifications

By application dated March 13, 1979 as supplemented by letters dated July 23, 1979 and July 31, 1979, the Virginia Electric and Power Company requested an amendment to the North Anna Power Station, Unit 1 license. The amendment would add a condition to License NPF-4 to authorize a one-time extension for less than a month on (1) Reactor Protection and Engineered Safety Features Response Times and (2) Safety Injection and Containment Depressurization Actuation Testing.

- (1) With respect to the Reactor Protection and Engineered Safety Features Response Times, the present Technical Specification 4.3.1.1.3 (Sensors, Circuits, Slave relays and UV coil) requires that one train and a fraction of the number of logic channels be tested every 18 months such that the response times of both logic trains of the Reactor Protection System and Engineered Safeguards Features (ESF) systems are checked every 36 months.

With respect to these tests the licensee has stated that:

- (a) As part of the preoperational test program, both trains and all channels of protection and ESF functions were checked and found to be in tolerance with a margin of 10 to 40 percent.
- (b) In a letter, dated July 31, 1979, the Licensee proposes to test both trains of $1/N^*$ channels, which is twice the requirement in the Technical Specifications. N for North Anna Unit 1 is 3 or 4 depending on the function. The Technical Specifications require testing of one train and $1/3$ or $1/4$ of the channels or a total of $1/6$ or $1/8$ of the systems. The licensee's proposal will be to test $1/3$ or $1/4$ of the systems depending on the function. On this basis, the licensee's testing will exceed the requirement stated in the Technical Specifications.

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*N = Number of channels.

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AUG 3 1979

We have reviewed the information submitted by the licensee and conclude that the delay is acceptable based on the demonstration that adequate margin existed in the response time measurement during the pre-operational tests, the duration of the delay and the commitment to test the system as stated above during the September refueling.

- (2) With respect to safety injection and containment depressurization actuation, the Technical Specifications 4.6.2.1.c, 4.6.2.2.1.c, 4.6.2.3.c, 4.6.3.1.2.a, 4.6.3.1.2.b, 4.7.4.1.d.2, and 4.7.8.1.d.2 require tests which involve cycling of valves and pumps in response to test signals. Each of the valves and pumps responded satisfactorily to test signals during pre-operational testing. Pursuant to Technical Specification 4.0.5 many of the valves and all of the pumps involved are functionally tested on a greater frequency than 18 months to assure operability. In addition, the reactor trip and ESF actuation system logic is tested monthly in accordance with Technical Specifications 4.3.1.1.2 and 4.3.2.1.2.

On the basis of our review of the licensee's information and the fact that the extension is only 10 days for the tests specified in Technical Specification 4.6.3.1.2.a and five days for the remaining tests, we conclude that the deferral of these tests is considered reasonable, and therefore acceptable.

B. Evaluation in Support of Deleting Conditions 2.D.(3)d and 2.D.(3)e of Operating License NPF-4 Amendment 5

Paragraph 2.D.(3)d of facility operating license No. NPF-4 Amendment 5 for the North Anna Power Station, Unit 1, issued May 19, 1978, stipulates as a condition to the license that:

Prior to startup following the first regularly scheduled refueling outage, the Virginia Electric and Power Company shall implement the final design modification of the recirculation spray system with respect to the available net positive suction head in accordance with their submittal of April 14, 1978, concerning the final solution to the NPSH problem for the recirculation spray pumps.

Paragraph 2.D.(3)c of facility operating license No. NPF-4 Amendment 5 for the North Anna Power Station, Unit 1 issued May 19, 1978, stipulates as a condition to the license that:

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Until Technical Specification 3.1.2.8.b.3, 4.1.2.8.b, 3.5.5.c, 4.5.5.b, 3.6.2.2, 4.6.2.2.1.b, 4.6.2.2.1.c, 4.6.2.2.2, Table 3.6-1, Items 32, 33, 34, and 35 of Item e, Figure 3.6-1 and Table 3.7-4 (snubbers 112 and 113) become effective (1) the refueling water storage tank water temperature shall not exceed 40 degrees Fahrenheit, (2) the service water temperature shall be maintained between 35 degrees Fahrenheit and 80 degrees Fahrenheit, (3) the containment atmosphere temperature shall be maintained between 86 degrees Fahrenheit and 105 degrees Fahrenheit and (4) the containment air partial pressure shall be maintained in accordance with Figure 1 (attached to Amendment No. 3 to Facility Operating License NPF-4) to assure that adequate net positive suction head is available to the recirculation spray pumps.

The Office of Inspection and Enforcement in their Region II Inspection Report 50-338/78-17, North Anna Power Station, Unit 1 state that the inspector had verified that the installation was implemented in accordance with the licensee's submittal of April 14, 1978. On this basis conditions 2.D.(3)d and 2.D.(3)e are deleted.

C. Environmental Conditions

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.

OFFICE	LWR #3:LPM	LWR #3:BC			
SURNAME	AD: [Signature]	ODParr			
DATE	7/3/79	8/3/79			

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. 13 to Facility Operating License No. NPF-4, issued to Virginia Electric and Power Company, which extends, on a one time basis, the surveillance frequency response time testing of systems, safety injection and containment depressurization actuation testing as specified in the Technical Specification to Appendix A of the North Anna Power Station, Unit No. 1 (the facility). The amendment also deletes two conditions (2.D.(3)d and 2.D(3)e) contained in Facility Operating License NPF-4. The Office of Inspection and Enforcement verified that these conditions had been implemented. The amendment is effective as of the date of issuance.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act); and the Commission's regulations. The Commission 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. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

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

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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.

For further details with respect to this action, see (1) Virginia Electric and Power Company letters, dated March 13, 1979, July 23, 1979, and July 31, 1979, (2) Amendment No. 13 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 3rd day of August, 1979

FOR THE NUCLEAR REGULATORY COMMISSION

Original Signed by
O. D. Parr

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

OFFICE	LWR #3:LA	LWR #3:LM	OELD	LWR #3:BC		
SURNAME	MRushbrook/LM	Drumerick	DSwanson	ODParr		
DATE	7/3/79	8/3/79	8/3/79	8/3/79		

AUG 3 1979

NORTH ANNA POWER STATION, UNIT NO. 1 -

AMENDMENT NO. 13 TO NPF-4

Distribution w/enclosure:

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NRC PDR
Local PDR (2)
LWR #3 File
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