

# REGULATORY DOCKET FILE COPY

MAY 19 1980

Docket No. 50-338

Mr. J. H. Ferguson  
 Executive Vice President - Power  
 Virginia Electric and Power Company  
 Post Office Box 26666  
 Richmond, Virginia 23261

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Dear Mr. Ferguson:

The Nuclear Regulatory Commission (the Commission) has issued the enclosed Amendment No. 18 to Facility Operating License No. NPF-4 for the North Anna Nuclear Power Station, Unit No. 1 (NA-1). The amendment consists of a change to the Technical Specifications in response to your application dated January 8, 1980.

The amendment corrects an administrative error by revising the maximum time delay for the emergency diesel generator to supply power to the emergency buses following a degraded grid offsite power system.

Copies of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,  
 Original signed by  
 Robert A. Clark

Robert A. Clark, Chief  
 Operating Reactors Branch #3  
 Division of Licensing

**Enclosures:**

1. Amendment No. 18 to NPF-4
2. Safety Evaluation
3. Notice of Issuance

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OFFICE	DL/ORB#3	DL/ORB#3	DL/ORB#3	AD/OL/OP	OELD	DL/ORB#3
SURNAME	LEngle L Engle	PKreutzer	RClark	TNovak	D. SUMNER	R. Clark
DATE	5/2/80	5/2/80	5/2/80	5/5/80	5/14/80	5/19/80



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

Docket No. 50-338

Docketing and Service Section  
Office of the Secretary of the Commission

SUBJECT: NORTH ANNA UNIT 1

Two signed originals of the Federal Register Notice identified below are enclosed for your transmittal to the Office of the Federal Register for publication. Additional conformed copies ( 12 ) of the Notice are enclosed for your use.

- Notice of Receipt of Application for Construction Permit(s) and Operating License(s).
- Notice of Receipt of Partial Application for Construction Permit(s) and Facility License(s): Time for Submission of Views on Antitrust Matters.
- Notice of Availability of Applicant's Environmental Report.
- Notice of Proposed Issuance of Amendment to Facility Operating License.
- Notice of Receipt of Application for Facility License(s); Notice of Availability of Applicant's Environmental Report; and Notice of Consideration of Issuance of Facility License(s) and Notice of Opportunity for Hearing.
- Notice of Availability of NRC Draft/Final Environmental Statement.
- Notice of Limited Work Authorization.
- Notice of Availability of Safety Evaluation Report.
- Notice of Issuance of Construction Permit(s).
- Notice of Issuance of Facility Operating License(s) or Amendment(s).  
Amendment No. 18
- Other: Referenced documents have been provided PDR

Division of Licensing, ORB#3  
Office of Nuclear Reactor Regulation

Enclosure:  
As Stated

OFFICE →	ORB#3/DL					
SURNAME →	PKreutzer/bd					
DATE →	5/21/80					



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

May 19, 1980

Docket No. 50-338

Mr. J. H. Ferguson  
Executive Vice President - Power  
Virginia Electric and Power Company  
Post Office Box 26666  
Richmond, Virginia 23261

Dear Mr. Ferguson:

The Nuclear Regulatory Commission (the Commission) has issued the enclosed Amendment No. 18 to Facility Operating License No. NPF-4 for the North Anna Nuclear Power Station, Unit No. 1 (NA-1). The amendment consists of a change to the Technical Specifications in response to your application dated January 8, 1980.

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Sincerely,

Robert A. Clark, Chief  
Operating Reactors Branch #3  
Division of Licensing

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2. Safety Evaluation
3. Notice of Issuance

cc w/enclosures:  
See next page

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Mr. J. H. Ferguson  
Virginia Electric and Power Company

cc: Richard M. Foster, Esquire  
1230 A Pearl Street  
Denver, Colorado 80203

Michael W. Maupin, Esquire  
Hunton, Williams, Gay and Gibson  
P. O. Box 1535  
Richmond, Virginia 23212

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Manuscripts Department  
University of Virginia  
Charlottesville, Virginia 22901

Mr. Edward Kube  
Board of Supervisors  
Louisa County Courthouse  
P. O. Box 27  
Louisa, Virginia 23093

Ellyn R. Weiss, Esquire  
Sheldon, Harmon, Roisman and Weiss  
1725 I Street, N.W., Suite 506  
Washington, D. C. 20006

Commonwealth of Virginia  
Council on the Environment  
903 Ninth Street Office Building  
Richmond, Virginia 23129

Mr. Michael S. Kidd  
U. S. Nuclear Regulatory Commission  
Post Office Box 128  
Spotsylvania, Virginia 22553

Mr. W. R. Cartwright, Station Manager  
P. O. Box 402  
Mineral, Virginia 23117

Mr. Anthony Gambardella  
Office of the Attorney General  
11 South 12th Street - Room 308  
Richmond, Virginia 23219

Mrs. June Allen  
412 Owens Drive  
Huntsville, Alabama 35801

Mr. James Torson  
501 Leroy  
Socorro, New Mexico 87801

Mrs. Margaret Dietrich  
Route 2, Box 568  
Gordonsville, Virginia 22042

Mr. James C. Dunstance  
State Corporation Commission  
Commonwealth of Virginia  
Blandon Building  
Richmond, Virginia 23209

U. S. Environmental Protection Agency  
Region III Office  
ATTN: EIS COORDINATOR  
Curtis Building  
6th and Walnut Streets  
Philadelphia, Pennsylvania 19106

Director, Technical Assessment Division  
Office of Radiation Programs (AW-459)  
U. S. Environmental Protection Agency  
Crystal Mall #2  
Arlington, Virginia 20460

Mr. Paul W. Purdom  
Environmental Studies Institute  
Drexel University  
32nd and Chestnut Streets  
Philadelphia, Pennsylvania 19104

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



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

Amendment No. 18  
License No. NPF-4

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by the Virginia Electric and Power Company (the licensee) dated January 8, 1980 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.

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2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.D.(2) of Facility Operating License No. NPF-4 is hereby amended to read as follows:

2.D.(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 18, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. The license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert A. Clark, Chief  
Operating Reactors Branch #3  
Division of Licensing

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: May 19, 1980

ATTACHMENT TO LICENSE AMENDMENT NO. 18

FACILITY OPERATING LICENSE NO. NPF-4

DOCKET NO. 50-338

Change the following page of the Appendix "A" Technical Specifications with the enclosed page as indicated. The revised page is identified by Amendment number and contains vertical lines indicating the area of change.

Page

3/4 3-29a

TABLE 3.3-5 (Continued)

ENGINEERED SAFETY FEATURES RESPONSE TIMES

<u>INITIATING SIGNAL AND FUNCTION</u>	<u>RESPONSE TIME IN SECONDS</u>
6. <u>Steam Flow in Two Steam Lines-High</u> <u>Coincident with Steam Line Pressure-Low</u>	
a. Safety Injection (ECCS)	≤ 13.0#/23.0##
b. Reactor Trip (from SI)	≤ 3.0
c. Feedwater Isolation	≤ 8.0
d. Containment Isolation-Phase "A"	≤ 18.0#/28.0##
e. Auxiliary Feedwater Pumps	≤ 60.0
f. Essential Service Water System	Not Applicable
g. Steam Line Isolation	≤ 8.0
7. <u>Containment Pressure--High-High</u>	
a. Containment Quench Spray	≤ 60.0
b. Containment Isolation-Phase "B"	≤ 60.0
8. <u>Containment Pressure-Intermediate</u> <u>High-High</u>	
a. Steam Line Isolation	≤ 7.0
9. <u>Steam Generator Water Level Low-Low</u>	
a. Auxiliary Feedwater Pumps	≤ 60.0
10. <u>Station Blackout</u>	
a. Auxiliary Feedwater Pumps	Not Applicable
11. <u>Main Feedwater Pump Trip</u>	
a. Auxiliary Feedwater Pumps	Not Applicable
12. <u>Steam Generator Water Level--High High</u>	
a. Turbine Trip - Reactor Trip	≤ 2.5
b. Feedwater Isolation	≤ 11.0



TABLE 3.3-5 (Continued)

ENGINEERED SAFETY FEATURES RESPONSE TIMES

<u>INITIATING SIGNAL AND FUNCTION</u>	<u>RESPONSE TIME IN SECONDS</u>
13. <u>Loss of Power</u>	
a. 4.16 kv Emergency Bus Undervoltage (Loss of Voltage)	$\leq 13.3^{###}$
b. 4.16 kv Emergency Bus Undervoltage (Degraded Voltage)	$\leq 11.5^{###}$ with SI signal $\leq 74.0^{###}$ with no SI signal



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 18 TO LICENSE NO. NPF-4

VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION, UNIT NO. 1

DOCKET NO. 50-338

Introduction

By letter dated January 8, 1980, the Virginia Electric and Power Company (the licensee) requested an amendment to Operating License No. NPF-4 for the North Anna Nuclear Power Station, Unit No. 1 (NA-1). The licensee's proposed amendment would correct an administrative error presently specified in the NA-1 Technical Specifications.

Discussion and Evaluation

The licensee's proposed change would correct an administrative error on page 3/4 3-29a, item 13.b of the NA-1 Technical Specifications. Item 13.b specifies the maximum time delay (response time) expected from the onset of a detected degraded offsite power system until the emergency diesel generator is supplying power to the emergency buses.

The presently specified response time of 64 seconds or less does not include the 10 seconds or less required for the diesel generator to start and come up to rated frequency and voltage. The 10 seconds or less should be added to the 64 seconds or less to provide the correct maximum response time. Based on the safety analysis performed by the licensee and reviewed by the NRC which specified a diesel response time of 10 seconds or less, we find the licensee's proposed correction to be acceptable. Therefore, item 13.b, page 3/4 3-29a of the NA-1 Technical Specifications is hereby specified to be 74 seconds or less.

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### 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 §51.5(d)(4), that an environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

### 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 and does not involve a significant decrease in a safety margin, the amendment 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.

Dated: May 19, 1980

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-338VIRGINIA ELECTRIC AND POWER COMPANYNOTICE OF ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 18 to Facility Operating License No. NPF-4 issued to the Virginia Electric and Power Company (the licensee) for operation of the North Anna Power Station, Unit No. 1 (the facility) located in Louisa County, Virginia. The amendment is effective as of its date of issuance.

The amendment corrects an administrative error presently existing in the Technical Specifications regarding the maximum response time expected from the onset of a detected degraded offsite power system until the emergency diesel generator is supplying power to the emergency buses.

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 rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and 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.

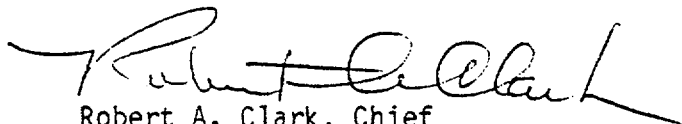
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The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR Section 51.5(d)(4) an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

For further details with respect to this action see (1) the application for the amendment dated January 8, 1980; (2) Amendment No. 18 to Facility Operating License No. NPF-4; and (3) the Commission's related Safety Evaluation. 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 to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland this 18th day of May, 1980.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert A. Clark, Chief  
Operating Reactors Branch #3  
Division of Licensing