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Docket No, 50-339

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

Dear Mr. Ferguson:



The Commission has issued Amendment No. 4 to Facility Operating License No. NPF-7 for the North Anna Power Station, Unit No. 2 (NA-2). The amendment revises License Condition 2.C.(13) as requested in your letter dated January 9, 1981. Amendment No. 4 is effective as of the date of issuance.

The amendment revises the time required for the Virginia Electric and Power Company to complete its piping reanalysis for multi-structure Amplified Response Spectra. The date for completion of this reanalysis has been revised from February 21, 1981 to May 22, 1981.

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

Sincerely,

*Robert A. Clark*  
 Robert A. Clark

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

Enclosures:

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

cc: w/enclosures  
 See next page

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P

*FR notice  
 Amendment  
 2/19/81*

OFFICE	ORB#3:DL	ORB#3:DL	ORB#3:DL	AD:OR:DL	OELD		
SURNAME	PMKreutzer	LEngle	RAClark	TNovak	DSwanson		
DATE	2/6/81	2/6/81	2/6/81	2/9/81	2/9/81		



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

DISTRIBUTION:

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Docket No. 50-339

Docketing and Service Section  
Office of the Secretary of the Commission

SUBJECT: VIRGINIA ELECTRIC AND POWER COMPANY = NORTH ANNA 2

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).

XI Other: Amendment No. 4  
Referenced documents have been provided PDR.

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

Enclosure:  
As Stated

OFFICE →	ORB#3-DL					
SURNAME →	PMKreutzer/pn					
DATE →	2/10/81					



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

February 10, 1981

Docket No. 50-339

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

Dear Mr. Ferguson:

The Commission has issued Amendment No. 4 to Facility Operating License No. NPF-7 for the North Anna Power Station, Unit No. 2 (NA-2). The amendment revises License Condition 2.C.(13) as requested in your letter dated January 9, 1981. Amendment No. 4 is effective as of the date of issuance.

The amendment revises the time required for the Virginia Electric and Power Company to complete its piping reanalysis for multi-structure Amplified Response Spectra. The date for completion of this reanalysis has been revised from February 21, 1981 to May 22, 1981.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Robert A. Clark".

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

Enclosures:

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

cc: w/enclosures  
See next page

Virginia Electric and Power Company

cc:

Richard M. Foster, Esquire  
Musick, Williamson, Schwartz,  
Leavenworth & Cope, P.C.  
P. O. Box 4579  
Boulder, Colorado 80306

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

Alderman Library  
Manuscripts Department  
University of Virginia  
Charlottesville, Virginia 22901

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

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

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

Mr. Allan Tattersall  
Resident Inspector/North Anna  
c/o U.S.N.R.C.  
P. O. Box 128  
Spotsylvania, Virginia 22553

Mrs. June Allen  
North Anna Environmental Coalition  
1105-C Olive Street  
Greensboro, North Carolina 27401

Mr. James Torson  
501 Leroy  
Socorro, New Mexico 87891

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

Director, Criteria and Standards Division  
Office of Radiation Programs (ANR-450)  
U.S. Environmental Protection Agency  
Washington, D. C. 20460

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

Mr. Paul W. Purdum  
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

cc w/enclosure(s) and incoming  
dtd: 1/9/81

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



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

VIRGINIA ELECTRIC AND POWER COMPANY

DOCKET NO. 50-339

NORTH ANNA POWER STATION, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 4  
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 January 9, 1981 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. Paragraph 2.C.(13) of Facility Operating License NPF-7 is hereby amended to read as follows:
  - 2.C.(13) No later than May 22, 1981, VEPCO is required to complete to the satisfaction of the Commission its piping reanalysis which includes the seismic amplified response spectra identified in VEPCO's letter of June 6, 1980, concerning Units 1 and 2, and submit the analysis to the Commission.

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3. This 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

Date of Issuance: February 10, 1981



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 4 TO FACILITY OPERATING LICENSE NO. NPF-7

VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION, UNIT NO. 2

DOCKET NO. 50-339

Introduction:

By letter dated January 9, 1981, the Virginia Electric and Power Company (the licensee or VEPCO) requested that Facility Operating License No. NPF-7 for the North Anna Power Station, Unit No. 2 (NA-2) be amended to permit a 90 day extension for the time period specified in License Condition 2.C.(13). This License Condition now stipulates that no later than six months from issuance of the full power operating license NPF-7 (August 21, 1980) the licensee shall have completed the multi-structure Amplified Response Spectra (ARS) reanalysis. This six month period ends February 21, 1981. Our basis for requiring License Condition 2.C.(13) to Operating License NPF-7 is provided in Supplement No. 11 (issued August, 1980) to the Safety Evaluation Report for NA-1 and 2 as specifically related to the operation of NA-2.

Discussion:

The licensee has submitted information indicating that the Phase I evaluation for the multi-structure ARS has been completed. The Phase I evaluation was the subject of a computer engineering evaluation made against design allowables using ARS curves for affected structures. For 505 seismic category I piping computer cases completed in the Phase I evaluation for NA-1 and 2, only 144 cases were determined to be affected by multi-structure ARS concerns. Of these, 51 cases were found to meet original design allowables when subjected to current ARS criteria specified in the Standard Review Plan. The remaining 93 cases apparently do not meet these allowables but do meet plant operational requirements. These 93 cases are presently being reanalyzed in detail under the Phase II portion of the multi-structure ARS reanalysis which will determine any changes required in the design and installation of pipe support systems.

The licensee's request for a 90 day extension in time for completing the multi-structures ARS is due to the large amount of work required in the analysis and the fact that there is presently a very restricted labor pool of qualified stress and support analysts available to the industry.

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The licensee has stated that during the Phase II evaluation period, over 100 analysts will be engaged in the multi-structure analysis and will remain committed to timely and proper completion of this evaluation. Also, the licensee has stated that at any time during the Phase II evaluation when it is shown that a portion of a piping system is not operable, the appropriate plant Technical Specification action will be taken.

Evaluation:

Meeting License Condition 2.C.(13) as presently stated would require the shutdown of NA-2 pending completion of the Phase II reanalysis. Due to the low probability of a seismic event and the fact that the available data to date indicates that no additional significant safety issues are likely to arise during the Phase II reanalysis period, shutdown of NA-2 is not warranted. Further, we reaffirm our conclusion stated in Supplement 11 to the SER for NA-1 and 2 as specifically related to NA-2 which states that existing system margins are sufficient to permit plant operation at full power during the completion of the analysis.

Therefore, we find acceptable the licensee's request for an extension of time (90 days) to be acceptable, and License Condition 2.C.(13) is hereby amended to read:

"No later than May 22, 1981, VEPCO is required to complete to the satisfaction of the Commission its piping reanalysis which includes the seismic amplified response spectra as identified in VEPCO's letter of June 6, 1980, concerning Units 1 and 2, and submit the analysis to the Commission."

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

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-339VIRGINIA ELECTRIC AND POWER COMPANYNOTICE OF ISSUANCE OF AMENDMENT TO FACILITY  
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 4 to Facility Operating License No. NPF-7 issued to the Virginia Electric and Power Company (the licensee) for operation of the North Anna Power Station, Unit No. 2 (the facility) located in Louisa County, Virginia. The amendment is effective as of its date of issuance.

The amendment revises the time required for the licensee to complete its piping reanalysis for multi-structure Amplified Response Spectra. The date for completion of this reanalysis has been revised from February 21, 1981 to May 22, 1981.

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 this amendment does not involve a significant hazards consideration.

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

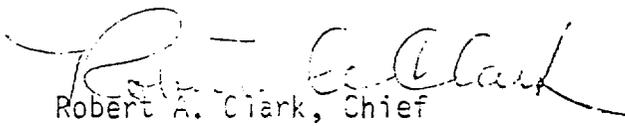
- 2 -

prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated January 9, 1981; (2) Amendment No. 4 to Facility Operating License No. NPF-7; 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 10th day of February, 1981.

FOR THE NUCLEAR REGULATORY COMMISSION

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