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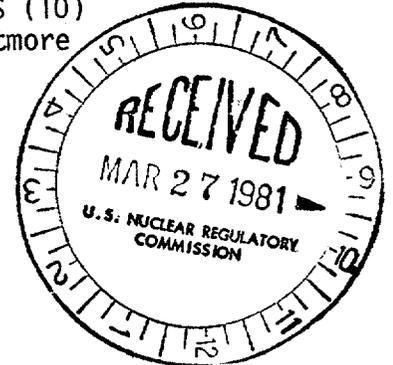
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Docket No. 50-338

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



Dear Mr. Ferguson:

The Commission has issued the enclosed Amendment No. 26 to Facility Operating License No. NPF-4 for the North Anna Power Station, Unit No. 1 (NA-1). The amendment revises the Technical Specifications as requested in your letter dated March 12, 1981 (Serial No. 119) and as supplemented by letter dated March 16, 1981 (Serial No. 119A).

The amendment makes changes to Table 3.7-4 of the NA-1 Technical Specifications by removing, adding and relocating certain plant snubbers. The changes are necessary as a result of the NRC required Multi Structure Amplified Response Spectra analysis presently underway at NA-1.

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. 26 to NPF-4
- 2. Safety Evaluation
- 3. Notice of Issuance

cc: w/enclosures  
See next page

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ORAB  
Wichman  
3/23/81

no legal objection to this or encl.

OFFICE	ORB#3:DL	ORB#3:DL	ORB#3:DL	ORAB	AD:ORB:DL	OELD	
SURNAME	PKreutzer	LEngle/pn	RAClark	Herrwig	IMNovak	DSwanson	
DATE	3/17/81	3/21/81	3/23/81	3/23/81	3/23/81	3/27/81	



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

DISTRIBUTION:  
Docket File  
ORB#3 Rdg  
PMKreutzer

Docket No. 50-338

Docketing and Service Section  
Office of the Secretary of the Commission

SUBJECT: VIRGINIA ELECTRIC AND POWER COMPANY, NORTH ANNA POWER STATION,  
UNIT NO. 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).

Other: Amendment No. 26.  
Referenced documents have been provided PDR.

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

Enclosure:  
As Stated

OFFICE →	ORB#3:DA					
SURNAME →	PMKreutzer/pn					
DATE →	3/24/81					



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

March 24, 1981

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 Commission has issued the enclosed Amendment No. 26 to Facility Operating License No. NPF-4 for the North Anna Power Station, Unit No. 1 (NA-1). The amendment revises the Technical Specifications as requested in your letter dated March 12, 1981 (Serial No. 119) and as supplemented by letter dated March 16, 1981 (Serial No. 119A).

The amendment makes changes to Table 3.7-4 of the NA-1 Technical Specifications by removing, adding and relocating certain plant snubbers. The changes are necessary as a result of the NRC required Multi Structure Amplified Response Spectra analysis presently underway at NA-1.

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. 26 to NPF-4
2. Safety Evaluation
3. Notice of Issuance

cc: w/enclosures  
See next page

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Virginia Electric and Power Company

cc:

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

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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

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Sheldon, Harman, Roisman and Weiss  
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Mineral, Virginia 23117

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Office of the Attorney General  
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Richmond, Virginia 23219

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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-460)  
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 Streets  
Philadelphia, Pennsylvania 19106

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

cc w/enclosure(s) and incoming  
dtd: 3/12/81, 3/16/81

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. 50-338

NORTH ANNA POWER STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 26  
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 12, 1981 (Serial No. 119) and as supplemented by letter dated March 16, 1981 (Serial No. 119A) 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) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 26, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: March 24, 1981

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 26 TO FACILITY OPERATING LICENSE NO. NPF-4

DOCKET NO. 50-338

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages as indicated. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change. The corresponding overleaf pages are also provided to maintain document completeness.

Pages

3/4 7-54

3/4 7-58

3/4 7-59

3/4 7-60

3/4 7-61

Table 3.7-4 (Continued)

SAFETY RELATED HYDRAULIC SNUBBERS\*

<u>SNUBBER No.</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION (ELEVATION-AREA)#</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
30A	SHP-290-MSVH	A	No	No
30B	SHP-290-MSVH	A	No	No
38A	SHP-290-MSVH	A	No	No
38B	SHP-290-MSVH	A	No	No
203	SHP-291-RCA	I	Yes	Yes
204	SHP-291-RCA	I	Yes	Yes
205	SHP-291-RCA	I	Yes	Yes
206	SHP-291-RCA	I	Yes	Yes
207	SHP-291-RCA	I	Yes	Yes
208	SHP-291-RCA	I	Yes	Yes

NORTH ANNA - UNIT 1

3/4 7-53b

Amendment No. 16

Table 3.7-4 (Continued)

SAFETY RELATED HYDRAULIC SNUBBERS\*

<u>SNUBBER NO.</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION (ELEVATION-AREA)#</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
400A	SI-258-13	I	No	Yes
400B	SI-258-13	I	No	Yes
400C	SI-258-13	I	No	Yes
400D	SI-258-13	I	No	Yes
101A	SI-256-SG	A	No	No
101B	SI-256-SG	A	No	No
102A	SI-256-SG	A	No	No
102B	SI-256-SG	A	No	No
104A	SI-256-SG	A	No	No

NORTH ANNA - UNIT 1

3/4 7-54

Amendment No. 19, 26

Table 3.7-4 (Continued)

SAFETY RELATED HYDRAULIC SNUBBERS\*

NORTH ANNA - UNIT 1

3/4 7-57

<u>SNUBBER No.</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION (ELEVATION-AREA)#</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
200	WFPD-291-RCA	A	No	No
201	WFPD-291-RCA	A	No	No
202	WFPD-291-RCA	A	No	No
203	WFPD-291-RCA	A	No	No
204	WFPD-291-RCA	A	No	No
205	WFPD-291-RCA	A	No	Yes
206	WFPD-291-RCA	A	No	No
207	WFPD-291-RCA	A	No	No
208	WFPD-291-RCA	A	No	No
209	WFPD-291-RCA	A	No	No
210	WFPD-291-RCA	A	No	No
211	WFPD-291-RCA	A	No	No

Table 3.7-4 (Continued)

SAFETY RELATED HYDRAULIC SNUBBERS\*

<u>SNUBBER NO.</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION (ELEVATION-AREA)#</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
212	WFPD-291-RCA	A	No	No
216	WFPD-282-MSVH	A	No	No
217	WFPD-282-MSVH	A	No	No
218	WFPD-282-MSVH	A	No	No
222	WFPD-272-MSVH	A	No	No
223	WFPD-272-MSVH	A	No	No
224	WFPD-272-MSVH	A	No	No
231A	WFPD-291-RCA	A	No	Yes

Table 3.7-4 (Continued)

SAFETY RELATED HYDRAULIC SNUBBERS\*

<u>SNUBBER NO.</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION (ELEVATION-AREA) #</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
231B	WFPD-291-RCA	A	No	Yes
231C	WFPD-291-RCA	A	No	Yes
231D	WFPD-291-RCA	A	No	Yes
235	WFPD-291-RCA	A	No	No
600	WFPD-291-RCA	A	No	No

Table 3.7-4 (Continued)  
SAFETY RELATED HYDRAULIC SNUBBERS\*

<u>SNUBBER NO.</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION (ELEVATION-AREA) #</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
213	FW-300-SB	A	No	No
214	FW-300-SB	A	No	No
215	FW-300-SB	A	No	No
226A	FW-300-SB	A	No	No
226B	FW-300-SB	A	No	No
227A	FW-300-SB	A	No	No
227B	FW-300-SB	A	No	No
228	FW-300-SB	A	No	No
229	FW-300-SB	A	No	No
230	FW-300-SB	A	No	No

Table 3.7-4 (Continued)

SAFETY RELATED HYDRAULIC SNUBBERS\*

<u>SNUBBER NO.</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION (ELEVATION-AREA) #</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
245A	FW-295-FWH	A	No	Yes
245B	FW-295-FWH	A	No	Yes
246	FW-295-FWH	A	No	Yes
233	SDHV-307-MSVH	A	No	No
233A	SDHV-307-MSVH	A	No	No
234	SDHV-307-MSVH	A	No	No
235	SDHV-307-MSVH	A	No	Yes
236	SDHV-297-MSVH	A	No	No





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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 26 TO FACILITY OPERATING LICENSE NO. NPF-4  
VIRGINIA ELECTRIC AND POWER COMPANY  
NORTH ANNA POWER STATION, UNIT NO. 1  
DOCKET NO. 50-338

Introduction:

This Safety Evaluation Report related to Amendment No. 26 to Facility Operating License NPF-4 for the North Anna Power Station, Unit No. 1 (NA-1) addresses changes in plant snubbers as specified in Table 3.7-4 of the NA-1 Technical Specification 3/4.7.10.

The changes involve the removal, addition and relocation of facility snubbers based on the ongoing NRC required multi-structure Amplified Response Spectra (ARS) reanalysis for NA-1. The ARS reanalysis has required in some cases the design and installation of pipe support modifications involving plant specific snubbers.

By letter dated March 12, 1981 and as supplemented by letter dated March 16, 1981, the Virginia Electric and Power Company (the licensee) requested the changes as noted above. These changes regarding specific snubber removal, addition and relocation and our bases for approval of these changes is provided below.

Discussion:

1. Snubber Nos. WFPD-H-225 and 600

Based on the ARS reanalysis, it has been determined that the existing snubber at location WFPD-H-225, outside the crane wall, be moved to location WFPD-H-600, inside the crane wall. This requires the deletion of snubber No. 225 and the addition of snubber No. 600 in Table 3.7-4 of the NA-1 Technical Specification 3/4.7.10.

The relocation of this snubber does not decrease the margin of safety, since at the new location the snubber will provide greater support to the piping for applicable loads expected during a seismic event or accident conditions as determined in the ARS reanalysis.

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2. Snubber Nos. WFPD-HSS-232, 233 and 234

Also, as a result of the ARS reanalysis, modifications were made to the supports for feed water piping to accommodate pipe stress and loading. Therefore, snubbers WFPD-HSS-232, 233 and 234 are no longer required and are removed. This requires the deletion of snubbers 232, 233 and 234, at location FW-300-SB, from Table 3.7-4 of the NA-1 Technical Specification 3/4.7.10.

The combination of the piping support modifications and the deletion of these snubbers does not decrease the margin of safety since stress and applicable loads on piping expected during a seismic event or accident conditions will be reduced.

3. Snubber Nos. WFPD-HSS-219, 220 and 221; and SI-HSS-100A and 100B

Finally, as a result of the ARS reanalysis, modifications were made to the supports of the feedwater piping system in the main steam valve house and the Safety Injection piping in the safeguards building. These changes involved the replacement of snubbers WFPD-HSS-219, 220 and 221, and snubbers SI-HSS-100A and 100B with rigid supports. As a result of these changes snubbers 219, 220 and 221, at location WFPD-282-MSVH and snubbers 100A and 100B at location SI-256-SG are deleted from Table 3.7-4 of NA-1 Technical Specification 3/4.7.10.

The combination of these changes were made to reduce pipe stresses and loading expected on the above piping during a seismic event or accident conditions, and the replacement of these snubbers with rigid supports does not decrease the margin of safety.

Evaluation:

Based on the above, we find these changes to Table 3.4-7 of the NA-1 Technical Specification 3/4.7.10 to be acceptable.

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.

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.

Date: March 24, 1981

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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. 26 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 makes changes to Table 3.7-4 of the facility Technical Specifications by removing, adding and relocating certain facility snubbers. The changes are needed based on the NRC required Multi-Structure Amplified Response Spectra Analysis presently underway at NA-1.

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.

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- 2 -

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 prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated March 24, 1981 ; (2) Amendment No. 26 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 24th day of March, 1981.

FOR THE NUCLEAR REGULATORY COMMISSION

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