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Docket No. 50-338

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Mr. R. H. Leasburg  
Vice President - Nuclear Operations  
Virginia Electric and Power Company  
Post Office Box 26666  
Richmond, Virginia 23261

Dear Mr. Leasburg:

The Commission has issued the enclosed Amendment No. 41 to Facility Operating License No. NPF-4 for the North Anna Power Station, Unit No. 1 (NA-1). The amendment consists of changes to the NA-1 Technical Specifications in response to your application dated July 16, 1982 and in our discussions with you regarding this matter.

The amendment provides relief from Surveillance Requirement 4.4.7 (Table 4.4.3) which requires that reactor coolant system chemistry limits for chlorides and fluorides be sampled on a continuing 72 hour basis. The relief from Surveillance Requirement 4.4.7 (Table 4.4-3) is applicable when the reactor coolant system is drained below the reactor pressure nozzle and the internals and/or head are in place. The relief is only applicable in Mode 6 (Refueling).

The amendment supports our letter to you dated July 16, 1982 wherein we confirmed our telephone authorization to you on July 16, 1982 granting the requested relief from Surveillance Requirement 4.4.7 (Table 4.4-3).

Copies of the related 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. 41 to NPF-4
2. Safety Evaluation
3. Notice of Issuance

cc: w/enclosures  
See next page

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OFFICE	ORB#3:DL	ORB#3:DL	ORB#3:DL	AD:AR:DL	OELD	CMEB	LGB: DST
SURNAME	PMKreutzer	LEngle/pn	RAClark	GLainas	DSwanson	CMC	PBrinkman
DATE	7/27/82	7/27/82	7/27/82	7/27/82	8/3/82	7/27/82	7/27/82



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

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PMKreutzer

Docket No. 50-338

Docketing and Service Section  
Office of the Secretary of the Commission

SUBJECT: VIRGINIA ELECTRIC AND POWER COMPANY, 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).
- Other: ~~Amendment No. 41 referenced documents have been provided PDR.~~

Enclosure:  
As Stated

Office of Nuclear Reactor Regulation  
Division of Licensing

OFFICE →	DL:ORB#3					
SURNAME →	PMKreutzer					
DATE →	8/4/82					

Virginia Electric and Power Company

CC:

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Commonwealth of Virginia  
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Richmond, Virginia 23209

Mrs. June Allen  
North Anna Environmental Coalition  
8720 Lockmoor Circle  
Wichita, Kansas 67207

U.S. Environmental Protection Agency  
Region III Office  
ATTN: Regional Radiation Representative  
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

Regional Administrator  
Nuclear Regulatory Commission, Region II  
Office of Executive Director for Operations  
101 Marietta Street, Suite 3100  
Atlanta, Georgia 30303



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. 41  
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 July 16, 1982, 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.

DESIGNATED ORIGINAL

Certified By \_\_\_\_\_

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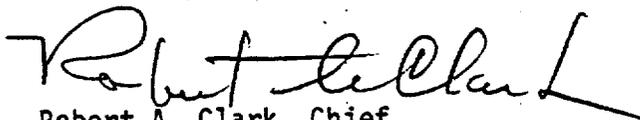
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.D.(2) of Facility Operating License No. NPF-4 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 41, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment was effective on July 16, 1982.

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: August 4, 1982

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 41 TO FACILITY OPERATING LICENSE NO. NPF-4

DOCKET NO. 50-338

Replace 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. The corresponding overleaf page is also provided to maintain document completeness.

Page

3/4 4-21

- TABLE 4.4-3 -

REACTOR COOLANT SYSTEM  
CHEMISTRY LIMITS SURVEILLANCE REQUIREMENTS

<u>PARAMETER</u>	<u>MINIMUM ANALYSIS FREQUENCIES</u>
DISSOLVED OXYGEN*	At least once per 72 hours
CHLORIDE**	At least once per 72 hours
FLUORIDE**	At least once per 72 hours

\* Not required with  $T_{avg} \leq 250^{\circ}F$

\*\* Not required when the Reactor Coolant System is drained below the reactor pressure vessel nozzle and the internals and/or head are in place.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 41 TO FACILITY OPERATING LICENSE NO. NPF-4  
VIRGINIA ELECTRIC AND POWER COMPANY  
NORTH ANNA POWER STATION, UNIT NO. 1  
DOCKET NO. 50-338

Introduction:

By teletype and letter dated July 16, 1982, the Virginia Electric and Power Company (the licensee) requested relief from Surveillance Requirement 4.4.7 (Table 4.4.3) of the Technical Specifications (TS) for the North Anna Power Station, Unit No. 1 (NA-1). Surveillance Requirement 4.4.7 requires that the reactor coolant system chemistry limits for chlorides and fluorides be sampled on a continuing 72 hour basis. The licensee's requested relief would eliminate the requirement for sampling chlorides and fluorides when the reactor coolant system is drained below the reactor pressure vessel nozzle and the internals and/or head are in place.

Our discussion and evaluation of the licensee's request is presented below and supports our letter to the licensee dated July 16, 1982 wherein we confirmed our telephone authorization to the licensee on July 16, 1982 granting the requested relief from Surveillance Requirement 4.4.7 (Table 4.4.3) of the NA-1 TS.

Discussion:

NA-1 is presently in its third refueling outage. The licensee is presently installing the Reactor Vessel Level Indication System as required by NUREG-0737 and is engaged in other maintenance and repairs. As such, fuel has presently been removed from the core and the Reactor Coolant System (RCS) is drained below the reactor coolant pressure nozzles. Also, the Reactor Heat Removal (RHR) system is drained and the upper core internals are presently in place.

To obtain the required chloride and fluoride samples on a continuing frequency of 72 hours would presently require personnel ingress to the area of the upper core internals. Entry into this area, which presently has a radiation field of 10 Roentgen per hour, would result in excessive radiation exposure.

Prior to fully draining the RCS, the required sampling of chlorides and fluorides was conducted in accordance with the specified sampling procedures. Also, since the RCS and the RHR system are presently drained, the inventory of chlorides and fluorides will not change and no makeup is planned for the RCS.

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Certified By \_\_\_\_\_

The licensee will resume sampling the RCS for chlorides and fluorides when the RCS is refilled so that the chlorides and fluorides inventory will be known and Surveillance Requirement 4.4.7 (Table 4.4.3) will then be followed as presently specified.

Evaluation:

We find the licensee's request for relief to be acceptable based on : (1) there is no fuel in the reactor, (2) the chloride and fluoride inventory cannot change during the period of relief requested by the licensee, and (3) personnel exposure resulting from following the present specified surveillance is not in keeping with ALARA considerations.

Therefore, relief is hereby granted from Surveillance Requirement 4.4.7 (Table 4.4.3) when the RCS is drained below the reactor pressure nozzle and the internals and/or head are in place.

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 an accident previously evaluated, does not create the possibility of an accident of a type different from any evaluated previously, and does not involve a significant reduction in a margin of safety, 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: August 4, 1982

Principal Contributor:

L. B. Engle ..

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. 41 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 was effective on July 16, 1982.

The amendment provides relief from Surveillance Requirement 4.4.7 (Table 4.4.3) which requires that reactor coolant system chemistry limits for chlorides and fluorides be sampled on a continuing 72 hour basis. The relief from Surveillance Requirement 4.4.7 (Table 4.4-3) is applicable when the reactor coolant system is drained below the reactor pressure nozzle and the internals and/or head are in place. The relief is only applicable in Mode 6 (Refueling).

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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Certified By \_\_\_\_\_

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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 §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 July 16, 1982; (2) the Commission's letter to the licensee dated July 16, 1982; (3) Amendment No. 41 to Facility Operating License No. NPF-4; and (4) 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), (3) and (4) 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 4th day of August, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

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