

August 21, 1985

Docket No. 50-339

DISTRIBUTION:

Mr. W. L. Stewart
Vice President - Nuclear Operations
Virginia Electric and Power Company
Post Office Box 26666
Richmond, Virginia 23261

Docket #44	PMKretutzer-3
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Dear Mr. Stewart:

The Commission has issued the enclosed Amendment No.51 to Facility Operating License No. NPF-7 for the North Anna Power Station, Unit No. 2 (NA-2). The amendment consists of changes to the Technical Specifications (TS) in response to your application dated February 11, 1985.

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).

A copy of the Safety Evaluation is also enclosed. The notice of issuance will be included in the Commission's next biweekly Federal Register notice.

Sincerely,

/S/

Leon B. Engle, Project Manager
Operating Reactors Branch #3
Division of Licensing

Enclosures:

1. Amendment No. 51 to NPF-7
2. Safety Evaluation

cc w/enclosures:
See next page

ORB#3:DL
PMKretutzer
8/15/85

LB
ORB#3:DL
LEngle
8/15/85

ORB#3:DL
EButcher
8/15/85

OELD
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No legal objection
McGowan

AD:OR:DL
GCLainas
8/12/85

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Mr. W. L. Stewart
Virginia Electric & Power Company

North Anna Power Station

cc:

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

VIRGINIA ELECTRIC AND POWER COMPANY

OLD DOMINION ELECTRIC COOPERATIVE

DOCKET NO. 50-339

NORTH ANNA POWER STATION, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 51
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, et al., (the licensee) dated February 11, 1985, 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.C.(2) of Facility Operating License No. NPF-7 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 51, 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



Edward J. Butcher, Acting Chief
Operating Reactors Branch #3
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: August 21, 1985

ATTACHMENT TO LICENSE AMENDMENT NO. 51

TO FACILITY OPERATING LICENSE NO. NPF-7

DOCKET NO. 50-339

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 areas of change. The corresponding overleaf page is also provided to maintain document completeness.

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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} less than or equal to 250°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.

REACTOR COOLANT SYSTEM

3/4.4.8 SPECIFIC ACTIVITY

LIMITING CONDITION FOR OPERATION

3.4.8 The specific activity of the primary coolant shall be limited to:

- a. Less than or equal to 1.0 $\mu\text{Ci}/\text{gram}$ DOSE EQUIVALENT I-131, and
- b. Less than or equal to $100/\bar{E}$ $\mu\text{Ci}/\text{gram}$.

APPLICABILITY: MODES 1, 2, 3, 4 and 5.

ACTION:

MODES 1, 2 and 3*

- a. With the specific activity of the primary coolant greater than 1.0 $\mu\text{Ci}/\text{gram}$ DOSE EQUIVALENT I-131 but within the allowable limit (below and to the left of the line) shown on Figure 3.4-1, operation may continue for up to 48 hours provided that the cumulative operating time under these circumstances does not exceed 800 hours in any consecutive 12-month period. With the total cumulative operating time at a primary coolant specific activity greater than 1.0 $\mu\text{Ci}/\text{gram}$ DOSE EQUIVALENT I-131 exceeding 500 hours in any consecutive 6-month period, prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within 30 days indicating the number of hours above this limit. The provisions of Specification 3.0.4 are not applicable.
- b. With the specific activity of the primary coolant greater than 1.0 $\mu\text{Ci}/\text{gram}$ DOSE EQUIVALENT I-131 for more than 48 hours during one continuous time interval or exceeding the limit line shown on Figure 3.4-1, be in at least HOT STANDBY with T_{avg} less than 500°F within 6 hours.
- c. With the specific activity of the primary coolant greater than $100/\bar{E}$ $\mu\text{Ci}/\text{gram}$, be in at least HOT STANDBY with T_{avg} less than 500°F within 6 hours.

*With T_{avg} greater than or equal to 500°F.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 51 TO

FACILITY OPERATING LICENSE NO. NPF-7

VIRGINIA ELECTRIC AND POWER COMPANY

OLD DOMINION ELECTRIC COOPERATIVE

NORTH ANNA POWER STATION, UNIT NO. 2

DOCKET NO. 50-339

Introduction:

By letter dated February 11, 1985, the Virginia Electric and Power Company (the licensee) requested relief from Surveillance Requirement 3/4.4.7 (Table 4.4-3) of the Technical Specifications (TS) for the North Anna Power Station, Unit No. 2 (NA-2). Surveillance Requirement 3/4.4.7 requires that the reactor coolant system (RCS) 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. In addition, the proposed change for NA-2, as stated above, has been previously reviewed and approved by the NRC for NA-1 as indicated in Amendment No. 41 to Facility Operating License NPF-4 dated August 4, 1982.

Discussion:

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

Prior to fully draining the RCS, the required sampling of chlorides and fluorides will be conducted in accordance with the specified sampling procedures. Also, since the RCS and the residual heat removal (RHR) system will be drained, the inventory of chlorides and fluorides will not change and no makeup is planned for the RCS.

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.

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Evaluation:

We find the licensee's request for relief to be acceptable based on: (1) the chloride and fluoride inventory cannot change during the period that the RCS and RHR systems are drained, and (2) personnel exposure resulting from following the specified present 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.

In addition, as noted above, the NRC has reviewed and approved a similar amendment request for NA-1 as stated in Amendment No. 41 to Facility Operating License NPF-4, dated August 4, 1982.

ENVIRONMENTAL CONSIDERATION

This amendment involves a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously published a proposed finding that the amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR §51.22(c)(9). Pursuant to 10 CFR §51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

CONCLUSION

We have concluded, based on the considerations discussed above, that (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations, and the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: August 21, 1985

Principal Contributor:
L. Engle