

May 11, 1987

Docket No. 50-339

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

Dear Mr. Stewart:

The Commission has issued the enclosed Amendment No. 79 to Facility Operating License No. NPF-7 for the North Anna Power Station, Unit No. 2 (NA-2). The amendment revises Facility Operating License Condition 2.C.(15)(c) in response to your letter dated February 19, 1987. The amendment is effective as of the date of its issuance.

The amendment revises License Condition 2.C.(15)(c) to permit the second inspection of the recirculation spray pumps inside containment to be performed during the forth coming NA-2 1987 refueling outage.

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

Sincerely,

/s/

Leon B. Engle, Project Manager  
Project Directorate II-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 79 to NPF-7
2. Safety Evaluation

cc w/enclosures:

See next page

LA-PDII-2  
DM:Miller  
4/20/87

PM:PDII-2  
LEngle:hc  
4/21/87

OGC  
MYoung  
4/28/87

PD:PDII-2  
LRubenstein  
5/6/87

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

North Anna Power Station  
Units 1 and 2

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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. 79  
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 19, 1987, 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.

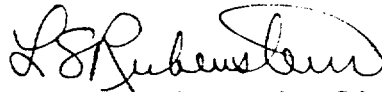
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2. Accordingly, the license is amended by revising paragraph 2.C.(15)(c) to read as follows:

(c) VEPCO shall remove and inspect the recirculation spray pumps inside containment and replace bearings if necessary. A similar inspection shall be performed at least once every five years thereafter (the second inspection shall be performed during the 1987 refueling outage).

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

FOR THE NUCLEAR REGULATORY COMMISSION



Lester S. Rubenstein, Director  
Project Directorate II-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Date of Issuance: May 11, 1987



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 79 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 19, 1987, the Virginia Electric and Power Company (the licensee) proposed a change to the North Anna Power Station, Unit No. 2 (NA-2) Facility Operating License No. NPF-7. Specifically, the proposed change would modify the NA-2 Facility Operating License Condition 2.C.(15)(c) which requires the inspection of the recirculation spray pumps inside containment at least once every five years. The proposed change would permit the second inspection to be performed during the forthcoming NA-2 refueling outage which is scheduled to commence on July 31, 1987. The inspection is currently required to be performed on May 27, 1987, and would require a plant shutdown. Therefore, the proposed change would allow the second inspection to take place during the 1987 refueling outage after an additional 64 days has transpired from the presently specified date for the second inspection.

DISCUSSION

Supplement 10 to NUREG-0053, Final Safety Evaluation Report, NA-1&2, Section 6.3.3 concerns the testing performed on the Inside Recirculation Spray Pumps. Paragraph 3 of Section 6.3.3 states: "We also require that these pumps be removed and inspected at the first planned major outage. The pump bearings should be replaced if necessary." Paragraph 4 adds ". . . We require a similar inspection of the pumps at least once every five years. . . [and] the Technical Specifications (TS) will reflect these requirements." By stating that the TS will reflect these requirements, Supplement 10 to NUREG-0053 indicates that these inspections will be subject to the same requirements regarding time intervals and allowable extensions as specified in the NA-2 TS 4.0.2.

The NA-2 TS 4.0.2 specifies (in part) that "Each surveillance requirement shall be performed within the specified time interval with a maximum allowable extension in time not to exceed 25% of the surveillance interval." Twenty-five percent of the five year surveillance interval (1825 days) is 456 days and thus, the licensee's request to exceed the five year testing interval by an additional 64 days to the forthcoming refueling outage is well within the allowable extension in time specified in the NA-2 TS 4.0.2.

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It is noted that during the first refueling outage for NA-2, the inside recirculation spray pumps were removed and inspected. The inspections revealed no significant degradation of the pump bearings.

Section 6.2.2.5.2 of the Updated Final Safety Analysis Report describes the instrumentation available in the control room to monitor system parameters during the operation of the recirculation spray pumps. This includes: pump discharge pressure; containment sump and recirculation pump discharge water temperature; vibration alarms; and indication of shaft rotation. Also, NA-2 TS 3.6.2.2 requires that "four separate and independent containment recirculation spray subsystems, each composed of a spray pump, associated heat exchanger and flow path" shall be OPERABLE during MODES 1, 2, 3, and 4. In addition, station periodic test procedures require that the inside recirculation spray pump be run every 3 months to determine OPERABILITY. This is accomplished by verifying that the pump achieves a speed greater than 100 rpm as indicated by a rotation sensor. No problems related to the bearings have been identified as a result of these periodic tests.

Based upon the satisfactory results of the inspection of the bearings during the first refueling outage, the diverse instrumentation available in the control room to detect system degradation during emergency operation, the current NA-2 TS requirements for system operability, and the periodic testing of the pumps for OPERABILITY determination, there is adequate assurance that the inside recirculation spray pumps will remain operable during the requested extension of time to the surveillance interval.

#### EVALUATION

In summary, the proposed change in the NA-2 Facility Operating License Condition 2.C.(15)(c) would not change the testing requirements. Only the required surveillance interval would be changed and the requested extension in the surveillance interval is well within the maximum allowable extension in time specified in the NA-2 TS.

Previous inspections have not shown any significant degradation on the recirculation spray pump bearings inside containment. In addition, periodic testing of the pumps for OPERABILITY (every three months over the past 5 years) have not indicated any problems. Also, the proposed change does not affect the NA-2 TS OPERABILITY requirement for the containment recirculation spray system. Finally, diverse instrumentation is available in the control room to detect system degradation during emergency operations. Therefore, based on all of the above, we find the proposed change to be acceptable, and the NA-2 Facility Operating License Condition 2.C.(15)(c) is hereby revised to permit the second inspection of the inside containment recirculation spray pumps to be performed during the forthcoming 1987 refueling outage.

#### 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: May 11, 1987

Principal Contributor:

Leon B. Engle