

August 2, 1990

Docket No. 50-338

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Mr. W. L. Stewart  
Senior Vice President - Nuclear  
Virginia Electric and Power Company  
5000 Dominion Blvd.  
Glen Allen, Virginia 23060

Dear Mr. Stewart:

SUBJECT: NORTH ANNA UNIT 1 - ISSUANCE OF AMENDMENT RE: TEST INTERVALS  
FOR CERTAIN SURVEILLANCE TESTS (TAC NO. 76916)

The Commission has issued the enclosed Amendment No. 134 to Facility Operating License No. NPF-4 for the North Anna Power Station, Unit No. 1 (NA-1). The amendment revises the Technical Specifications (TS) in response to your letter dated April 27, 1990.

This amendment allows a one-time extension of 6 months for test intervals for certain surveillance tests specified in the NA-1 Technical Specifications (TS). This one-time extension is necessary to compensate for the extended NA-1 seventh refueling outage that occurred from February 25, 1989 to July 15, 1989. This unscheduled outage, together with additional time allowed for optimum fuel burnup before the next refueling outage, has resulted in a 6-month deferral of the next refueling outage for NA-1.

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

Sincerely,

Original signed by

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

Enclosures:

1. Amendment No. 134 to NPF-4
2. Safety Evaluation

cc w/enclosures:

See next page

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*1/1*

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

North Anna Power Station  
Units 1 and 2

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. 50-338

NORTH ANNA POWER STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

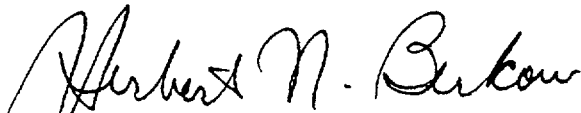
Amendment No. 134  
License No. NPF-4

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Virginia Electric and Power Company et al., (the licensee) dated April 27, 1990, 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 hereby amended by adding license condition 2.D.(3)t. to state:
  - t. The performance of certain surveillance tests at 18 month intervals to coincide with the normal 18-month refueling cycles shall be extended by six months for North Anna Unit 1 eighth cycle only as described in the licensee's letter dated April 30, 1990.
3. This license amendment is effective as of the date of issuance and shall be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION



Herbert N. Berkow, Director  
Project Directorate II-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Date of Issuance: August 2, 1990



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 134

FACILITY OPERATING LICENSE NO. NPF-4

VIRGINIA ELECTRIC AND POWER COMPANY

OLD DOMINION ELECTRIC COOPERATIVE

NORTH ANNA POWER STATION, UNIT NO. 1

DOCKET NO. 50-338

INTRODUCTION

By letter dated April 27, 1990, the Virginia Electric and Power Company (the licensee) requested an amendment in the form of a license condition to Facility Operating License NPF-4 for the North Anna Power Station, Unit No. 1 (NA-1). The proposed license condition allows a one-time extension of certain surveillance test intervals as specified in the NA-1 Technical Specifications (TS) for the eighth cycle of operation only.

NA-1 completed applicable Mode 4, 5 and 6 surveillance tests during the seventh refueling outage which ended on July 15, 1989. It was considered unreasonable to repeat these surveillance tests during the several short unanticipated outages that have occurred since then. However, these unplanned outages and the unexpected length of the cycle seven refueling outage has impacted the surveillance test intervals between the seventh and eighth refueling outages. This delay, together with additional time allowed for an optimum fuel burn-up before the next refueling, has resulted in a deferral of the next refueling outage for North Anna Unit 1 until February 1991.

DISCUSSION

Currently, the NA-1 TS require the performance of certain surveillance tests at 18-month intervals to coincide with normal 18-month refueling cycles. The proposed change would extend these surveillance test intervals for the NA-1 eighth cycle by 6 months.

One-time changes to the surveillance test intervals associated with a plant shutdown or refueling outage as specified in the NA-1 TS for Operating License NPF-4 are requested as follows:

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- 1) The 18-month surveillance test cycle requirement as specified in the following Technical Specifications sections is changed to 24 months for the eighth cycle of unit operation only:

4.1.2.2.c	4.7.4.1.c
4.5.2.e	4.7.7.1.d
4.6.2.1.c	4.7.8.1.d
4.6.2.2.1.c	4.8.1.1.2.d
4.6.2.3.c	4.8.1.1.3.c
4.6.3.1.2	4.8.2.3.2.c
4.7.1.2.b	4.8.2.3.2.d

- 2) Table 1.2 of Section 1.0, Definitions, which defines "R" as "At least once per 18 months." as it applies to the following Technical Specifications sections and related tables, and the 18-month requirement in the note in the tables indicated below, are changed to 24 months for the eighth cycle of unit operation only:

Table 4.3.1, Note (4)

Table 4.3.2, Note (1)

#### EVALUATION

Current monitoring of instrumentation and ongoing TS surveillance tests provide assurance that the equipment involved in the extended surveillance tests will remain in operable condition until their inspection at the next refueling outage. In addition, periodic surveillance tests have been performed since the NA-1 sixth outage to monitor system and component performance and to detect any significant degradation. Finally, surveillance testing will continue to be performed during the requested extension interval which provides added assurance that the reliability of equipment associated with the extended surveillance will not be significantly degraded by this one-time extension.

The impact of the extended seventh refueling outage that occurred from February 25, 1989 to July 15, 1989 and several unanticipated outages and the additional time required for an optimum fuel burn-up before the next refueling outage (February 1991) have resulted in the need to reschedule the NA-1 refueling outages outside the surveillance interval (including "grace" period) permitted by the TS. Periodic surveillance requirements were not intended to adversely affect safe plant operations simply because a specified interval did not coincide with plant operating schedules. Normally, variations in those schedules, e.g., a nominal 18 month refueling cycle versus an 18 month surveillance test interval, can already be accommodated through the existing NA-1 TS. However, circumstances may arise in which existing relief is inadequate, but good cause can still be shown by the licensee why additional relief should be granted.

Such is the case here. In this instance, the licensee has provided sufficient evidence that the change in plant refueling outage schedules was not undertaken for a reason or in a manner adverse to safety, that reasonable assurance exists that equipment associated with the extended surveillance will not be significantly degraded by the extension, and that good cause exists for granting the extension. Therefore, the staff finds the one-time extension for the surveillance tests as specified above to be acceptable.

### ENVIRONMENTAL CONSIDERATION

This amendment involves a change to a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes surveillance requirements. We have 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 issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this 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 this 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 2, 1990

Principal Contributor:  
Leon B. Engle

DATED: August 2, 1990

AMENDMENT NO. 134 TO FACILITY OPERATING LICENSE NO. NPF-4-NORTH ANNA UNIT 1

Docket File

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PD Plant-specific file [Gray File]

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