

January 9, 1989

Docket No. 50-338

DISTRIBUTION  
See attached sheet

Mr. W. R. Cartwright  
Vice President - Nuclear  
Virginia Electric and Power Company  
5000 Dominion Blvd.  
Glen Allen, Virginia 23060

Dear Mr. Cartwright:

SUBJECT: NORTH ANNA UNIT 1 - ISSUANCE OF AMENDMENT RE: TEST INTERVALS FOR CERTAIN SURVEILLANCE TESTS (TAC NO. 71065)

The Commission has issued the enclosed Amendment No. 113 to Facility Operating License No. NPF-4 for the North Anna Power Station, Unit No. 1 (NA-1). The amendment revises the license in response to your letter dated October 19, 1988.

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 NA-1 unscheduled steam generator tube rupture repair outage from July 15, 1987 to October 13, 1987. 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. 113 to NPF-4
- 2. Safety Evaluation

cc w/enclosures:  
See next page

[Amend 71065]

LA P...  
DM...  
12/15/88

PM: *LB*  
LEngle:bd  
12/15/88

*HNB*  
D:PDII-2  
HBerkow  
12/15/88

*The provided copy of the amendment involve test procedures for which time periods are specified by regulation.*  
*OGC-WF*  
*R. Bachmann*  
*12/15/88*  
*1/4/89*

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Mr. W. R. Cartwright  
Virginia Electric & Power Company

North Anna Power Station  
Units 1 and 2

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DATED: January 9, 1989

AMENDMENT NO. 113 TO FACILITY OPERATING LICENSE NO. NPF-4-NORTH ANNA UNIT 1

~~Project File~~

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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

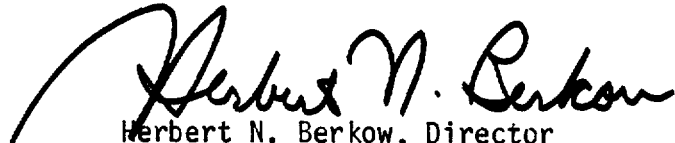
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 113  
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 October 19, 1988, 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.

2. Accordingly, the license is hereby amended by adding license condition 2.D.(3)s. to state:
  - s. The performance of certain surveillance tests at 18, 36, and 60 month intervals to coincide with the normal 18-month refueling cycles shall be extended by six months for North Anna Unit 1 seventh cycle only as described in the licensee's letter dated October 19, 1988.
3. This license amendment is effective as of the date of issuance.

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: January 9, 1989



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 113

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 October 19, 1988, 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 seventh cycle of operation only.

NA-1 completed applicable Mode 4, 5 and 6 surveillance tests during the sixth refueling outage which ended on June 29, 1987. It was not considered reasonable to repeat these surveillance tests during the time frame that NA-1 was shut down for steam generator (SG) repairs which occurred from July 15, 1987 to October 13, 1987. However, this unplanned outage did serve to impact the surveillance test intervals between the sixth and the seventh cycles of operation. This delay, together with additional time allowed for an optimum fuel burn-up before the next refueling outage, has resulted in a deferral of the next refueling outage for NA-1 until April 1989.

DISCUSSION

Currently, NA-1 TS require the performance of certain surveillance tests at 18, 36, and 60 month intervals to coincide with normal 18-month refueling cycles. Due to the new schedule, certain surveillances required to be performed during shutdown cannot be performed within the interval required by the NA-1 TS.

The proposed change would extend these surveillance test intervals for the NA-1 seventh cycle by 6 months to compensate for several unanticipated outages, including the SG tube rupture event, and to permit optimum fuel burn-up prior to refueling. Use of the allowable extension for surveillance test intervals in accordance with TS 4.0.2 which corresponds to the 3 month

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unplanned SG outage requires that the first surveillance testing interval expire on February 27, 1989. Other surveillance test intervals (specified below) expire during the month of March 1989. Rather than use the extension allowed by TS 4.0.2 and request an additional 3-month extension until the April 1989 refueling outage, a 6-month extension for the affected surveillance tests intervals is requested for the seventh cycle only to preserve the extension allowed by TS 4.0.2 for future refueling cycles.

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

- (1) The 18-month surveillance test cycle requirement as specified in the following TS sections would be changed to 24 months for the seventh cycle of unit operation only:

4.1.2.2.c	4.3.2.1.2	4.3.3.9.c	4.4.3.2.1.b
4.4.9.3.1.b	4.4.10.1.1	4.5.1.d	4.5.2.e
4.6.1.3.c	4.6.2.1.c	4.6.2.2.1.c	4.6.2.3.c
4.6.3.1.2	4.7.1.2.b	4.7.4.1.c	4.7.7.1.d
4.7.8.1.d	4.7.9.1.b	4.7.10.c	4.7.10.f
4.8.1.1.1.b	4.8.1.1.2.d	4.8.1.1.3.e	4.8.2.3.2.d
4.8.2.3.2.f			

- (2) The 18/36-month surveillance test cycle requirements as specified in the following TS sections would be changed to 24/42 months for the seventh cycle of unit operation only:

4.3.1.1.3                      4.3.2.1.3

- (3) The 60-month surveillance test interval requirement as specified in the following TS section would be changed to 66 months for the seventh cycle of unit operation only:

4.8.1.1.3.d

- (4) Table 1.2 of Section 1.0, Definitions, which defines "R" as "At least once per 18 months" as it applies to the following TS sections and related tables, and the 18-month requirement in the note in the tables indicated below, would be changed to 24 months for the seventh cycle of unit operation only:

Section	Table	Note
4.3.1.1.1	4.3-1	(4)
4.3.2.1.1	4.3-2	(1)
4.3.3.1	4.3-3	---
4.3.3.3.1	4.3-4	---
4.3.3.5	4.3-6	---
4.3.3.6	4.3-7	---

## EVALUATION

Current monitoring of instrumentation and ongoing TS surveillance tests provide assurance that the equipment involved in the extended surveillance tests will remain in an 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 1987 tube rupture event at NA-1 and the continuing need for electrical generating capacity in the licensee's service area during the upcoming winter months 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 in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 or changes to surveillance requirements. 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: January 9, 1989

Principal Contributor:

Leon B. Engle