

May 6, 1992

DO NOT REMOVE

Docket No. 50-338

Posted
Ammt. 158 to NPF-4

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: TRIAXIAL RESPONSE
SPECTRUM RECORDERS (TAC NO. M82142)

The Commission has issued the enclosed Amendment No. 158 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 November 7, 1991.

This amendment revises the current NA-1 TS to ensure that the correct
measurement range of the triaxial response spectrum recorders is reflected in
NA-1 TS 3.3.3.3, Table 3.3-7.

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,

/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. 158 to NPF-4
2. Safety Evaluation

cc w/enclosures:
See next page

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Document Name:

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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. 158
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 November 7, 1991 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.

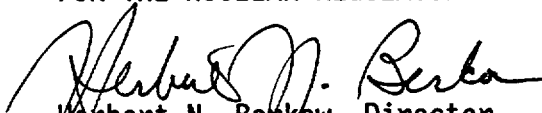
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.D.(2) of Facility Operating License No. NPF-4 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 158, 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 its 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

Attachment:
Changes to the Technical
Specifications

Date of Issuance: May 6, 1992

ATTACHMENT TO LICENSE AMENDMENT NO. 158

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.

Remove Page

3/4 3-41

Insert Page

3/4 3-41

TABLE 3.3-7
SEISMIC MONITORING INSTRUMENTATION

<u>INSTRUMENTS AND SENSOR LOCATIONS</u>	<u>MEASUREMENT RANGE</u>	<u>MINIMUM INSTRUMENTS OPERABLE</u>
1. Triaxial Time-History Accelerographs		
a. Containment Mat*	0 - 1.0 g	1
b. Containment Operating Level*	0 - 1.0 g	1
2. Triaxial Peak Accelerographs		
a. RHR Heat Exchanger	0 - 5.0 g	1
b. Safety Injection pipe	0 - 5.0 g	1
c. Component Cooling Heat Exchanger	0 - 5.0 g	1
3. Triaxial Seismic Switches		
a. Containment Mat*	NA	NA
4. Triaxial Response-Spectrum Recorders		
a. Containment Mat*	2 - 25.4 Hz	1
b. Auxiliary Building Mat	2 - 25.4 Hz	1
c. RHR Pipe Support	2 - 25.4 Hz	1
d. CC Heat Exchanger Support	2 - 25.4 Hz	1

*With reactor control room indication



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 158

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

1.0 INTRODUCTION

By letter dated November 7, 1991, the Virginia Electric and Power Company (the licensee) proposed a change to the Technical Specifications (TS) for the North Anna Power Station, Unit No. 1 (NA-1). Specifically, the proposed change would revise the current NA-1 TS to ensure that the correct measurement range of the triaxial response spectrum recorders is reflected in NA-1 TS 3.3.3.3, Table 3.3-7.

2.0 DISCUSSION

A seismic instrumentation program is provided at NA-1 to monitor and record input motion and behavior at major Seismic Class 1 structures and components during a seismic event. As part of this program, four triaxial response spectrum recorders are in place to record input motion during a seismic event. These recorders are located at the containment mat, the auxiliary building mat, the residual heat removal pipe support, and the component cooling heat exchanger support. As documented by letter dated April 18, 1991, the licensee notified the NRC that NA-1 Amendment 80, issued May 27, 1986 for the current measurement range requirements of the triaxial response spectrum recorders, was in error. The licensee's request for Amendment 80 included requirements which were inconsistent with the frequency range of the existing NA-1 instrumentation as specified in the Updated Final Safety Analysis Report (UFSAR). The UFSAR, Chapter 3, Design Criteria Appendix A, Compliance With Safety Guides, confirmed the licensee's compliance, with several exceptions, to Regulatory Guide (RG) 1.12, Instrumentation for Earthquakes. One specific exception specified in Appendix A was the triaxial response spectrum recorder frequency measurement range of 2-25.4 Hz instead of the 1-30 Hz range specified in RG 1.12 and currently specified in the NA-1 TS. Therefore, the licensee proposes to change the measurement range for NA-1 TS 3.3.3.3, Table 3.3-7, items 4a-4d from 1-30 Hz to between 2-25.4 Hz.

3.0 EVALUATION

The proposed change would bring the NA-1 TS 3.3.3.3, Table 3.3-7, items 4a-4d into conformance with the range of instrumentation originally installed at NA-1 and excepted from RG 1.12, Revision 1, dated April 1974, as specified in Section 3A.12 of the UFSAR. No modifications have been made to the installed triaxial response recorders and no physical plant changes, changes in plant operations, or changes in accident analysis would occur as a result of the proposed change. Therefore, the accident analysis assumptions specified in the NA-1 UFSAR remain bounding. Based on the above, the staff finds the proposed change to be acceptable.

4.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Virginia State official was notified of the proposed issuance of the amendment. The State official had no comment.

5.0 ENVIRONMENTAL CONSIDERATION

This amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The NRC 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 issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding (56 FR 66931). 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.

6.0 CONCLUSION

The Commission has 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, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: Leon B. Engle

Date: May 6, 1992