

April 30, 1985



VIRGINIA POWER

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
Attn: Mr. James R. Miller, Chief  
Operating Reactors Branch No. 3  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Serial No. 85-290  
E&C/NAS:sas:2013N  
Docket Nos.: 50-338  
50-339  
License Nos.: NPF-4  
NPF-7

Gentlemen:

VIRGINIA POWER  
NORTH ANNA POWER STATION UNITS NO. 1 AND 2  
REACTOR VESSEL MATERIALS SURVEILLANCE REPORTS  
AND PROPOSED TECHNICAL SPECIFICATIONS CHANGES

Pursuant to 10 CFR 50.90, Virginia Power requests amendments, in the form of changes to the Technical Specifications, to Operating Licenses NPF-4 and NPF-7 for North Anna Units No. 1 and 2, respectively.

In accordance with the current Technical Specifications and with 10 CFR 50 Appendices G and H, Virginia Power has updated the pressure-temperature limit curves to be applied during heatup and cooldown. The updated curves, which are valid through 10 Effective Full Power Years (EFPY) for each unit, are based on conservative extrapolated vessel irradiation levels which reflect the results of evaluations of the first surveillance capsules removed from the two units. The removal and evaluation of these capsules constitutes part of the Reactor Vessel Materials Surveillance Program established by Virginia Power in accordance with the latest version of 10 CFR 50 Appendix H.

Attachments 1 and 2 provide the proposed Technical Specifications changes for Units 1 and 2. In addition to the revised pressure-temperature limit curves, accompanying changes to the reactor heatup rate limits and the low temperature overpressure protection (Power Operated Relief Valve) setpoints are also provided. Attachment 3 is a Safety Evaluation of the proposed changes.

The surveillance capsule evaluations, which were performed by Babcock and Wilcox, are provided as Attachments 4 and 5 for Units 1 and 2, respectively. Attachment 6 provides a description of the neutron fluence calculations and development of the revised Appendix G pressure-temperature limits which form the basis of the proposed changes. Please note that for North Anna Unit 2, the Attachment 6 pressure-temperature limits supersede those included in Attachment 5.

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Rec'd w/ Hest \$150.00

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Mr. Harold R. Denton  
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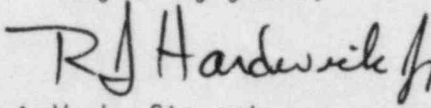


The proposed changes and supporting documentation have been reviewed and approved by the Station Nuclear Safety and Operating Committee and by the Safety Evaluation and Control Staff. It has been determined that this request does not pose any unreviewed safety question as defined in 10 CFR 50.59 nor does it pose a significant hazards consideration as defined in 10 CFR 50.92.

The current limits on Unit 1 are valid to at least 5 EFPY. In the event the 5 EFPY of energy generation is achieved on Unit 1 prior to receipt of your approval of the proposed changes, our intent is to administratively implement the 10-year reduced limits at that time. Based on our current operating and refueling schedules, we anticipate reaching 5 EFPY on Unit 1 by the Spring of 1986. The current Unit 2 limits are based on 8 EFPY of energy generation. Based on current schedules, 8 EFPY of energy generation will not be reached before 1990.

We have evaluated this request in accordance with the criteria in 10 CFR 170.12. A check in the amount of \$150 is enclosed as an application fee.

Very truly yours,

  
W. L. Stewart

Attachments:

1. Proposed Technical Specifications Change - Unit 1
2. Proposed Technical Specifications Change - Unit 2
3. Safety Evaluation
4. BAW-1638 - Unit 1 Surveillance Capsule Evaluation Report
5. BAW-1794 - Unit 2 Surveillance Capsule Evaluation Report
6. BAW-1872 - Development of Updated Pressure-Temperature Limit Curves - Units 1 and 2

cc: Dr. J. Nelson Grace  
Regional Administrator  
Region II

Mr. M. W. Branch  
NRC Resident Inspector  
North Anna Power Station

Mr. Charles Price  
Department of Health  
109 Governor Street  
Richmond, Virginia 23219

COMMONWEALTH OF VIRGINIA )  
 )  
CITY OF RICHMOND )

The foregoing document was acknowledged before me, in and for the City and Commonwealth aforesaid, today by R. J. Hardwick, Jr. who is Manager - Nuclear Programs and Licensing, of Virginia Power. He is duly authorized to execute and file the foregoing document in behalf of that Company, and the statements in the document are true to the best of his knowledge and belief.

Acknowledged before me this 30 day of April, 19 85.

My Commission expires: February 10, 19 89.

Charles M. Moore  
Notary Public

(SEAL)

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ATTACHMENT 1

PROPOSED TECHNICAL SPECIFICATION CHANGE

UNIT 1