

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261
August 19, 2010

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Serial No. 10-483
NL&OS/ETS R0
Docket Nos. 50-338/339
License Nos. NPF-4/7

VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION)
NORTH ANNA POWER STATION UNITS 1 AND 2
FOURTH INTERVAL INSERVICE TESTING PROGRAM PLAN
PUMP RELIEF REQUEST P-6
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

In a letter dated November 24, 2009 (Serial No. 09-715), Dominion submitted the Fourth Interval Inservice Testing (IST) Program Plan for North Anna Power Station Units 1 and 2. Pursuant to 10 CFR 50.55a(f)(4)(ii), the IST programs were updated to comply with the ASME Code for Operations and Maintenance of Nuclear Power Plants, 2004 Edition. The submitted plan describes the programmatic aspects of the IST program and includes associated proposed alternatives and relief requests for the fourth interval. In an August 10, 2010 telephone call, the NRC staff requested additional information to complete their review of pump relief request P-6. The attachment to this letter provides the information requested in the phone call.

The fourth IST interval will begin on December 15, 2010 and North Anna Units 1 and 2 will begin implementation of the plans on that date. Therefore, Dominion continues to request review and approval of the fourth interval plan, including proposed alternatives and relief requests, by December 1, 2010.

If you have any questions or require additional information, please contact Mr. Thomas Shaub at (804) 273-2763.

Respectfully,


J. Alan Price
Vice President – Nuclear Engineering

Commitments made in this letter: None

Attachment

Response to Request for Additional Information – Pump Relief P-6

AD47
NRR

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Attachment

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION – PUMP RELIEF P-6

**North Anna Power Station
Units 1 and 2
Virginia Electric and Power Company (Dominion)**

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION – PUMP RELIEF P-6

Background

In a letter dated November 24, 2010 (Serial No. 09-715), Dominion submitted the Fourth Interval Inservice Testing (IST) Program Plan for North Anna Power Station Units 1 and 2. Pursuant to 10 CFR 50.55a(f)(4)(ii), the IST programs were updated to comply with the ASME Code for Operations and Maintenance of Nuclear Power Plants, 2004 Edition. The submitted plan describes the programmatic aspects of the IST program and includes associated proposed alternatives and relief requests for the fourth interval. In an August 10, 2010 telephone call, the NRC staff requested additional information to complete their review of pump relief request P-6. The response to the RAI is provided below.

NRC Questions

NRC Question 1

Relief request P-6, Section 5.0, Proposed Alternative and Bases for use, ISTB-3300(e)(1), last paragraph, states “Using the provision of this relief request as an alternative to the specific requirements of Table ISTB-3300-1, and Table ISTB-3400-1 identified above, which have been indentified to be impractical, will provide adequate indication of pump performance.” Please explain how Table ISTB-3300-1 and Table ISTB-3400-1 are related to the submitted relief request, because these are not discussed in the entire relief request.

Dominion Response

Reference to Table ISTB-3300-1 and Table ISTB-3400-1 is incorrect. The sentence should have read “Using the provision of this relief request as an alternative to the specific requirements of ISTB-3300(e)(1) identified above, which has been indentified to be impractical, will provide adequate indication of pump performance.” Please use the corrected reference to complete the review.

NRC Question 2

Please confirm that for relief request P-6, North Anna Units 1 and 2 have similar system configuration and pump flow performance figures (curves), because North Anna Units 1 and 2 are using the same figure (curves) number for their relief requests.

NRC staff believes that during third interval IST program, North Anna Unit 1 and Unit 2 provided different flow performance figures. Therefore, please explain why relief requests curves are the same for Unit 1 and Unit 2 for fourth interval IST.

Dominion Response

North Anna Units 1 and 2 have similar test loop system configurations for the outside recirculation spray pumps. Test data has shown that the North Anna Units 1 and 2 pumps have similar performance characteristics.

During plant construction in the early 1970s, only one original vendor curve was supplied for all four outside recirculation spray pumps (Unit 1 pumps 1-RS-P-2A and 1-RS-P-2B and for Unit 2 pumps 2-RS-P-2A and 2-RS-P-2B). Figure P-6.2 in Relief Request P-6 for the North Anna Unit 1 IST Program Plan and Figure P-6.2 in Relief Request P-6 for the Unit 2 IST Program Plan use the same original vendor curve to illustrate that the slope of the pump curve near the test points is well sloped and that the tests will provide measurable differences in pump performance due to degradation. The Interval 3 relief requests used the same original vendor curve that that has been submitted for Interval 4 for both Units 1 and 2 outside recirculation spray pumps.