

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

October 12, 2017

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

Serial No. 17-395
NAPS/RAP R0
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION ENERGY VIRGINIA)
NORTH ANNA POWER STATION UNITS 1 AND 2
ANNUAL SUBMITTAL OF TECHNICAL SPECIFICATION BASES CHANGES
PURSUANT TO TECHNICAL SPECIFICATION 5.5.13.d

Pursuant to Technical Specification 5.5.13.d, "Technical Specifications (TS) Bases Control Program," Dominion Energy Virginia hereby submits the changes to the Bases of the Technical Specifications implemented during the period of October 1, 2016 through September 30, 2017. A summary of these changes is provided in Attachment 1. Enclosed is an electronic copy (CD) of the entire TS Bases through Revision 61 for your information.

Bases changes to the Technical Specifications that were submitted to the NRC for information along with the associated License Amendment Request transmittals, submitted pursuant to 10CFR50.90, were also reviewed and approved by the Facility Safety Review Committee. These changes have been implemented with the respective License Amendments. A summary of these changes is provided in Attachment 1.

If you have any questions regarding this submittal, please contact Mr. Donald R. Taylor at (540) 894-2100.

Sincerely,

BE Standley

B. E. Standley
Director, Nuclear Safety and Licensing

*ADD1
NRR*

Attachment

1. Summary of TS Bases Changes Associated with License Amendments

Enclosure – CD of Current TS Bases (Revision 61)

Commitments made in this letter: None

cc: U.S. Nuclear Regulatory Commission
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ATTACHMENT 1

**SUMMARY OF TS BASES CHANGES
ASSOCIATED WITH LICENSE AMENDMENTS**

**VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION ENERGY VIRGINIA)
NORTH ANNA POWER STATION UNITS 1 AND 2**

SUMMARY OF TS BASES CHANGES ASSOCIATED WITH LICENSE AMENDMENTS

Heat Flux Hot Channel Factor ($F_Q(Z)$)

Technical Specification 3.2.1, Heat Flux Hot Channel Factor ($F_Q(Z)$), was modified to enhance the Required Actions to be taken in the event that transient $F_Q(Z)$ surveillance limits are not met to address concerns identified in Westinghouse communications NSAL-09-5 Rev. 1 and NSAL-15-1. The changes define separate terms, action steps and surveillance requirements for steady-state and transient $F_Q(Z)$, denoted as $F_Q^E(Z)$ and $F_Q^T(Z)$, respectively. The use of separate surveillance requirements (SR) in this manner is consistent with Westinghouse Standard Technical Specifications, NUREG-1431, Rev. 4. The revised surveillance requirements provide guidance for application and determining the magnitude of a penalty factor for the measured $F_Q(Z)$. The factor will be applied if the trend in measured values indicates decreasing margin to the applicable limit since performing the previous surveillance or if the trend in predicted values indicates decreasing margin to the applicable limit prior to the next required surveillance. The changes specify that this factor will be defined in the Core Operating Limits Report (COLR), which allows specific numerical values of the factor to be evaluated for each reload core. The Bases for TS 3.2.1 were modified to address the above changes.

The Bases changes noted above were submitted to the NRC by Dominion submittal dated December 10, 2015 and incorporated into the Bases for North Anna Units 1 and 2 on August 31, 2017 upon NRC approval and implementation of the associated Technical Specification changes (Amendment 278 for Unit 1 and Amendment 261 for Unit 2 issued on October 17, 2016).