



February 17, 2022

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

Serial No. 21-042D  
NRA/GDM R0  
Docket Nos. 50-336/423  
50-338/339  
50-280/281  
License Nos. DPR-65/NPF-49  
NPF-4/7  
DPR-32/37

**DOMINION ENERGY NUCLEAR CONNECTICUT, INC. (DENC)**  
**MILLSTONE POWER STATION UNITS 2 AND 3**  
**VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION ENERGY VIRGINIA)**  
**NORTH ANNA AND SURRY POWER STATIONS UNITS 1 AND 2**  
**REQUEST FOR APPROVAL OF APPENDIX E OF FLEET REPORT DOM-NAF-2-A**  
**MODELING ERROR CORRECTION**

By letter dated February 11, 2021 [Serial No. 21-042 (ADAMS Accession No. ML21042B321)], DENC and Dominion Energy Virginia (collectively, Dominion Energy) submitted Appendix E, "Qualification of the Framatome BWU-I CHF Correlation in the Dominion Energy VIPRE-D Computer Code," to Fleet Report DOM-NAF-2-A for NRC review and approval. Subsequent to that submittal, an error was identified in the VIPRE-D model for the WES162 test section that supports the BWU-I Experimental Database. The error results in VIPRE-D ignoring mixing vane grids in the top half of the fuel assembly within guide tube cells. The modeling error has been corrected, and the VIPRE-D/BWU-I code/correlation limit has been recalculated with the corrected local conditions resulting in a 95/95 DNBR limit of 1.22. The recalculated limit is less than the 95/95 DNBR limit of 1.23 that was provided in our original submittal; consequently, the 1.23 limit remains conservative and bounding following correction of the modeling error. As a result, Dominion Energy's request for NRC approval of the 95/95 DNBR limit of 1.23 is unchanged.

If you have questions or require additional information, please contact Mr. Gary D. Miller at (804) 273-2771.

Respectfully,

A handwritten signature in black ink, appearing to read "D. Lawrence", written over a light blue horizontal line.

Douglas C. Lawrence  
Vice President - Nuclear Engineering and Fleet Support  
Dominion Energy Nuclear Connecticut, Inc.  
Virginia Electric and Power Company

Commitments made in this letter: None

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