

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

December 18, 2017

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

Serial No. 17-460  
NRA/DEA R0  
Docket Nos.: 50-280/281  
License Nos.: DPR-32/37

**VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION ENERGY VIRGINIA)**  
**SURRY POWER STATION UNITS 1 AND 2**  
**NOTIFICATION: IMPLEMENTATION OF GENERIC LETTER 83-11,**  
**SUPPLEMENT 1 GUIDELINES TO ALLOW USE OF**  
**TOPICAL REPORT SSP-14-P01/028-TR-P-A METHODOLOGY**

This letter provides notification that Dominion Energy Virginia has instituted and documented the eligibility, training, procedures, benchmarking, and quality / change control processes for Surry Units 1 and 2 according to Attachment 1 of NRC Generic Letter 83-11, Supplement 1. These documents were generated under the Dominion Energy Virginia Quality Assurance program and are available for NRC audit.

Generic Letter 83-11, Supplement 1 provides guidelines for qualifying licensees to use Nuclear Regulatory Commission (NRC) approved analysis methods for performing safety analyses. In order to document qualification, the licensee is required to send the NRC notification of having followed the guidelines at least 3 months before the date of its intended first licensing application.

Topical Report SSP-14-P01/028-TR-P-A, "Generic Application of the Studsvik Scandpower Core Management System to Pressurized Water Reactors," has been reviewed and generically approved by the NRC for the Pressurized Water Reactor (PWR) class of plants (Agencywide Documents Access and Management System Accession No. ML17279A986). Dominion Energy Virginia has performed an evaluation which documents that the guidelines delineated in Generic Letter (GL) 83-11, Supplement 1, "Licensee Qualification for Performing Safety Analyses," to allow the use of Topical Report SSP-14-P01/028-TR-P-A Core Management System 5 (CMS5) methodology have been met at Surry. Specifically,

1. Topical Report SSP-14-P01/028-TR-P-A is a NRC generically approved methodology.
2. Dominion Energy Virginia has in-house application procedures to control use of the CMS5 methodology.
3. Dominion Energy Virginia personnel are trained and qualified to use the CMS5 methodology.
4. Dominion Energy Virginia has performed comparison calculations to demonstrate the correct use of the CMS5 methodology.
5. Dominion Energy Virginia has the appropriate Quality Assurance and change control programs in place.

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The Surry Unit 1 spring 2018 core reload will be the first licensing application of Topical Report SSP-14-P01/028-TR-P-A CMS5 methodology.

Additionally, as required by Topical Report SSP-14-P01/028-TR-P-A, Dominion Energy Virginia provides notification that the generic Nuclear Reliability Factors presented in Table 4-25 of Topical Report SSP-14-P01/028-TR-P-A will be used for future safety-related core physics calculations performed for Surry Units 1 & 2.

If you have any questions regarding this submittal, please contact Ms. Diane E. Aitken at (804) 273-2694.

Sincerely,



Gerald T. Bischof  
Vice President – Nuclear Operations - Fleet Performance

Commitments made in this letter: None

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