Dominion Energy Services, Inc. 5000 Dominion Boulevard, Glen Allen, VA 23060 DominionEnergy.com

March 9, 2020



U.S. Nuclear Regulatory Commission Attention: Document Control Desk

Washington, D.C. 20555

Serial No.: NRA/GDM 20-055

R2

Docket Nos.:

50-336/423

50-338/339 50-280/281

50-395

License Nos.: DPR-65

NPF-49 NPF-4/7 DPR-32/37

NPF-12

DOMINION ENERGY NUCLEAR CONNECTICUT, INC (DENC)

VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION ENERGY VIRGINIA)

DOMINION ENERGY SOUTH CAROLINA, INC (DESC)

MILLSTONE POWER STATION (MPS) UNITS 2 AND 3

NORTH ANNA POWER STATION (NAPS) UNITS 1 AND 2

SURRY POWER STATION (SPS) UNITS 1 AND 2

VIRGIL C. SUMMER NUCLEAR STATION (VCSNS) UNIT 1

NRC BULLETIN 2012-01 DESIGN VULNERABILITY IN ELECTRIC POWER SYSTEM

REGULATORY COMMITMENT CHANGE TO REMAIN IN MONITORING VS.

PROTECTION MODE

By letter dated December 19, 2018 [ADAMS Accession No. ML18361A573], Dominion Energy Virginia and DENC committed to enabling the trip function for the Open Phase Isolation Systems (OPIS) at NAPS and SPS Units 1 and 2, and MPS Units 2 and 3, respectively, by December 31, 2020. By letter dated May 2, 2019 [ADAMS Accession No. ML19122A517], DESC committed to enabling the OPIS trip function at VCSNS Unit 1 by October 31, 2020.

On June 6, 2019, the Nuclear Energy Institute (NEI) issued Revision 3 of the voluntary industry initiative (VII), *Open Phase Condition Initiative*, which incorporated a Risk Informed Evaluation Method that could be used to demonstrate that operator manual actions would be sufficient to mitigate the impact of an open phase condition (OPC). NEI also issued Technical Report NEI 19-02, *Guidance for Assessing Open Phase Condition Implementation Using Risk Insights*, as a means of performing the risk evaluation allowed by Revision 3 of the VII. NEI 19-02 provides guidance for the performance of a risk assessment to inform the decision of whether to implement the OPIS automatic trip function or to implement the OPIS to provide alarm and indication to the control room operator and rely on operator action to diagnose and respond to the presence of an OPC.

After reviewing these two documents, Dominion Energy Virginia, DENC, and DESC (collectively, Dominion Energy) performed risk evaluations for NAPS and SPS Units 1 and 2, MPS Units 2 and 3, and VCSNS Unit 1, respectively, in accordance with the NEI 19-02 guidance. The risk evaluations were performed to determine whether the units met the risk acceptance criteria for maintaining their OPIS in detection (i.e., monitoring and control room indication) mode, with associated manual operator actions, to address an OPC, as opposed to enabling the automatic trip protection function. The risk evaluation performed for each station evaluated the risk of OPCs that could potentially impact various switchyard transformers and determined the risk benefit, if any, of operating the OPIS in protection (trip) mode versus detection (monitoring) mode. The completed risk evaluations for the Dominion Energy plants determined that the benefit of operating the OPIS in automatic (protection) mode is considered "very small" in accordance with Regulatory Guide 1.174. Therefore, operation of the OPIS in detection mode with alarmed operator response to an OPC is considered sufficient to mitigate the impact of an OPC.

Based on the completed risk evaluations discussed above, Dominion Energy is hereby revising its fleet NRC Bulletin 2012-01 commitments to place the respective plants' non-safety-related OPIS in detection and indication mode as opposed to automatic trip mode. NAPS and SPS Units 1 and 2 have both non-safety-related and safety-related OPIS installed. Their safety-related OPIS will remain in automatic trip mode at this time; however, this decision may be reevaluated in the future regarding the use of a detection and indication solution. License amendment requests would be required should NAPS and/or SPS elect to remove the automatic trip function for their safety-related OPIS. The revised station commitments are summarized in the table below. Note that the previously provided OPIS completion commitment dates have not changed and are provided in the table below for completeness.

REVISED NRC BULLETIN 2012-01 COMMITMENTS			
Plant	Automatic Trip Mode	Detection and Alarm Only Mode	Completion Date
	(Yes/No)	(Yes/No)	
MPS Units 2 and 3	No	Yes	December 31, 2020
NAPS Units 1 and 2	Yes – Safety- related OPIS	Yes - Non-safety - related OPIS	December 31, 2020
SPS Units 1 and 2	Yes – Safety- related OPIS	Yes - Non-safety - related OPIS	December 31, 2020
VCSNS Unit 1	No	Yes	October 31, 2020

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

Sincerely,

Mark D. Sartain

Vice President – Nuclear Engineering and Fleet Support

Commitments made in this letter: See Commitment Table above.

COMMONWEALTH OF VIRGINIA

COUNTY OF HENRICO

The foregoing document was acknowledged before me, in and for the County and Commonwealth aforesaid, today by Mark D. Sartain, who is the Vice President – Nuclear Engineering & Fleet Support of Virginia Electric and Power Company and Dominion Energy Nuclear Connecticut, Inc. He has affirmed before me that he is duly authorized to execute and file the foregoing document in behalf of those Companies, and that the statements in the document are true to the best of his knowledge and belief.

Acknowledged before me this ______ day of _______, 2020.

My Commission Expires: Ward 31, 2022

DIANE E. AITKEN
NOTARY PUBLIC
REG. #7763114
COMMONWEALTH OF VIRGINIA
MY COMMISSION EXPIRES MARCH 31, 2022

Notary Public

cc: Regional Administrator, Region I U. S. Nuclear Regulatory Commission 2100 Renaissance Blvd., Suite 100 King of Prussia, PA 19406-2713

Regional Administrator, Region II U.S. Nuclear Regulatory Commission Marquis One Tower 245 Peachtree Center Avenue, NE Suite 1200 Atlanta, Georgia 30303-1257

Mr. Richard V. Guzman Senior Project Manager U.S. Nuclear Regulatory Commission One White Flint North, Mail Stop 08 C-2 11555 Rockville Pike Rockville, MD 20852-2738

Mr. Vaughn Thomas
NRC Project Manager – Surry
U.S. Nuclear Regulatory Commission
One White Flint North
Mail Stop 04 F-12
11555 Rockville Pike
Rockville, MD 20852-2738

Mr. G. Edward Miller
NRC Senior Project Manager – North Anna
U.S. Nuclear Regulatory Commission
One White Flint North
Mail Stop 09 E-3
11555 Rockville Pike
Rockville, MD 20852-2738

Mr. Shawn A. Williams
NRC Project Manager
U. S. Nuclear Regulatory Commission
One White Flint North, Mail Stop 08 B1-A
11555 Rockville Pike
Rockville, Maryland 20852-2738

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Mr. Marcus Harris Old Dominion Electric Cooperative Innsbrook Corporate Center 4201 Dominion Blvd. Suite 300 Glen Allen, Virginia 23060

NRC Senior Resident Inspector North Anna Power Station

NRC Senior Resident Inspector Surry Power Station

NRC Senior Resident Inspector Millstone Power Station

NRC Senior Resident Inspector V C Summer Power Station