

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

July 16, 2009

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

Serial No. 09-412A  
NLOS/ETS R0  
Docket Nos. 50-338  
50-339  
License Nos. NPF-4  
NPF-7

**VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION)**  
**NORTH ANNA POWER STATION UNITS 1 AND 2**  
**RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION**  
**LICENSE AMENDMENT REQUEST**  
**MEASUREMENT UNCERTAINTY RECAPTURE POWER UPRATE**

In a letter dated March 26, 2009 (Serial No. 09-033), Dominion requested amendments to Operating Licenses NPF-4 and NPF-7 for North Anna Power Station Units 1 and 2, respectively. This measurement uncertainty recapture (MUR) power uprate License Amendment Request (LAR) would increase each unit's authorized core power level from 2893 megawatts thermal (MWt) to 2940 MWt, and make changes to Technical Specifications as necessary to support operation at the uprated power level. In a July 8, 2009 letter (Serial No. 09-412), Dominion responded to the NRC staff's request for additional information (RAI).

In a July 10, 2009 phone call, the NRC staff and Dominion discussed RAI question eleven, which pertained to the impact of the MUR on grid stability. During the call, the NRC requested additional information regarding the actual value of the generator outputs used in the grid stability studies. The following information is provided to address the NRC request.

In the LAR and the follow-up response to the RAI, Dominion indicated that the gross generator outputs after the MUR are 980.5 MWe for Unit 1, and 972.9 MWe for Unit 2. Gross generator output values are used in grid stability analyses.

As part of the capacity uprate projects, Dominion submitted new requests with PJM for authority to dispatch additional output, and these requests were assigned four submittal or queue numbers by PJM. Queue numbers S108 and S109 address an additional 20 MWe per unit for North Anna Units 1 and 2, respectively, for the MUR. Queues S110 and S112 were submitted for North Anna Units 2 and 1, respectively, to address an additional 65 MWe output per unit due to planned efficiency improvements from turbine replacements. As part of the system impact studies (SIS), transient stability analyses were performed by PJM and provide the basis for the interconnect service agreement (ISA) Dominion has with PJM. These SIS documents also considered the associated gross generator outputs of 1075 MWe (Queue S112 for North Anna Unit 1) and 1068 MWe (Queue S110 for North Anna Unit 2). Based on PJM's approval of these submittals, Dominion now has a new ISA with PJM.



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