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.

In the new ISA, PJM also refers to the term maximum facility output (MFO). MFO represents the output that could be available to the grid, but is slightly different from Net Generation (gross generator output minus station service loads), since PJM averages three years of summer output data to arrive at an MFO value. Under the active ISA, the current MFO values are 945 MWe for Unit 1 and 938 MWe for Unit 2, which were the values discussed in the response to RAI question eleven. Under the new ISA for MUR and turbine replacement, the MFO values have increased to 1009.3 MWe and 993.7 MWe for Units 1 and 2, respectively.

The system impact study and the interconnect service agreement are available on the PJM website and are identified under the Queue numbers.

The information provided in this letter does not affect the conclusion of the significant hazards consideration discussion provided in Dominion letter dated March 26, 2009 (Serial No. 09-033).

If you have any questions or require additional information, please contact Mr. Thomas Shaub at (804) 273-2763.

Sincerely,

W R Matthews

William R. Matthews
Senior Vice President - Nuclear Operations

Commitments made in this letter: None

COMMONWEALTH OF VIRGINIA)
)
COUNTY OF HENRICO)

The foregoing document was acknowledged before me, in and for the County and Commonwealth aforesaid, today by William R. Matthews, who is Senior Vice President – Nuclear Operations, of Virginia Electric and Power Company. He has affirmed before me that he is duly authorized to execute and file the foregoing document in behalf of that Company, and that the statements in the document are true to the best of his knowledge and belief.

Acknowledged before me this 16TH day of July, 2009.

My Commission Expires: May 31, 2010

Vicki L. Hull
Notary Public

VICKI L. HULL
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140642
My Commission Expires May 31, 2010

cc: U.S. Nuclear Regulatory Commission
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