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March 7, 2011

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

Serial No. NA3-11-009R
Docket No. 52-017
COL/DWL

DOMINION VIRGINIA POWER
NORTH ANNA UNIT 3 COMBINED LICENSE APPLICATION
SRP 02.05.04: RESPONSE TO RAI LETTER 59

On February 9, 2011, the NRC requested additional information to support the review of certain portions of the North Anna Unit 3 Combined License Application (COLA). The response to one of the three questions is provided in Enclosure 1:

- RAI 5386, Question 02.05.04-23 Clarification of Settlement Analysis Inputs

The responses to the other two questions, RAI 5386 Questions 02.05.04-22 and 02.05.04-24, require additional technical evaluation and review time to prepare. The responses to these two questions will be provided by April 15, 2011.

Please contact Regina Borsh at (804) 273-2247 (regina.borsh@dom.com) if you have questions.

Very truly yours,

Eugene S. Grecheck

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NED

Enclosure:

1. Response to RAI Letter Number 59, RAI 5386 Question 02.05.04-23

Commitments made by this letter:

1. Provide responses to RAI 5386, Question 02.05.04-22 and Question 02.05.04-24 by April 15, 2011.

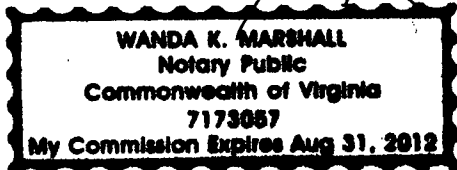
COMMONWEALTH OF VIRGINIA

COUNTY OF HENRICO

The foregoing document was acknowledged before me, in and for the County and Commonwealth aforesaid, today by Eugene S. Grecheck, who is Vice President-Nuclear Development of Virginia Electric and Power Company (Dominion Virginia Power). He has affirmed before me that he is duly authorized to execute and file the foregoing document on behalf of the Company, and that the statements in the document are true to the best of his knowledge and belief.

Acknowledged before me this 1st day of March, 2011
My registration number is 7173057 and my
Commission expires: August 31, 2012

Wanda K. Marshall
Notary Public



cc: U. S. Nuclear Regulatory Commission, Region II
C. P. Patel, NRC
T. S. Dozier, NRC
J. T. Reece, NRC

ENCLOSURE 1

Response to NRC RAI Letter 59

RAI 5386 Question 02.05.04-23

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

North Anna Unit 3

Dominion

Docket No. 52-017

RAI NO.: 5386 (RAI Letter 59)

SRP SECTION: 02.05.04 – STABILITY OF SUBSURFACE MATERIALS AND FOUNDATIONS

QUESTIONS for Geosciences and Geotechnical Engineering Branch 2 (RGS2)

DATE OF RAI ISSUE: 02/09/2011

QUESTION NO.: 02.05.04-23

FSAR Section 2.5.4.10.2, Settlement Analysis, states that settlement estimates were calculated using the concrete fill and rock properties provided in Table 2.5-212. This table lists both high-strain and low-strain elastic modulus. Please clarify which elastic modulus was used in the settlement calculations of seismic Category 1 structures and foundations. This RAI is asked in accordance with 10 CFR 100.23.

Dominion Response

The high-strain elastic modulus was used in the settlement calculations for the North Anna Unit 3 seismic Category 1 structures and foundations because it provides larger (and thus more conservative) estimated settlements.

Proposed COLA Revision

None