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March 21, 2013

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

Serial No. NA3-13-002R  
Docket No. 52-017  
COL/BCB

**DOMINION VIRGINIA POWER**  
**NORTH ANNA UNIT 3 COMBINED LICENSE APPLICATION**  
**SRP 05.03.02: RESPONSE TO RAI LETTER 107**

On January 18, 2013, the NRC requested additional information to support the review of certain portions of the North Anna Unit 3 Combined License Application (COLA), which consisted of one question. The response to the following Request for Additional Information (RAI) Question is provided in the enclosure:

- RAI 6893, Question 05.03.02-9 License Condition for Submittal of Pressurized Thermal Shock Evaluation

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

Very truly yours,

Eugene S. Grecheck

Enclosure: Response to NRC RAI Letter No. 107, RAI 6893, Question 05.03.02-9

Commitments made by this letter:

1. A set of proposed license conditions will be added to COLA Part 10 in a future COLA submission.

DOB9  
N120

COMMONWEALTH OF VIRGINIA

COUNTY OF HENRICO

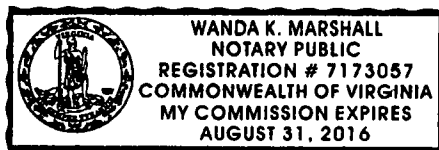
The foregoing document was acknowledged before me, in and for the County and Commonwealth aforesaid, today by Eugene S. Grecheck, who is Vice President-Nuclear Engineering and Development of Virginia Electric and Power Company (Dominion Virginia Power). He has affirmed before me that he is duly authorized 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 21<sup>st</sup> day of March, 2013

My registration number is 7173057 and my

Commission expires: August 31, 2016

Wanda K. Marshall  
Notary Public



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

**ENCLOSURE**

**Response to NRC RAI Letter No. 107**

**RAI No. 6893, Question 05.03.02-9**

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**RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION**

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**North Anna Unit 3  
Dominion  
Docket No. 52-017**

**RAI NO.: 6893 (RAI LETTER NO. 107)**

**SRP SECTION: 05.03.02 – PRESSURE-TEMPERATURE LIMITS, UPPER-SHELF  
ENERGY, AND PRESSURIZED THERMAL SHOCK**

**DATE OF RAI ISSUE: 01/18/2013**

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**QUESTION NO.: 05.03.02-9**

To provide the NRC staff with the reasonable assurance that the requirements of 10 CFR 50.61 will be met, the NRC has imposed a license condition regarding the submittal of plant-specific pressurized thermal shock (PTS) values to the NRC for all pressurized water reactor (PWR) COL holders. However, in contrast to the license condition provided in the Comanche Peak R-COL, the NRC staff has found that the North Anna S-COL does not contain any license conditions. For the North Anna S-COL, the staff is considering to impose the following license condition:

The COL Holder will submit its pressurized thermal shock (PTS) evaluation, using the as-procured reactor vessel material properties within 12 months after acceptance of the reactor vessel.

It is noted that the time period of the submittal is the same as what was proposed by the R-COL applicant. The staff requests that the applicant review the proposed license condition and propose similar license condition to support the North Anna S-COL application.

### **Dominion Response**

As noted in the question, the North Anna Unit 3 COLA does not contain proposed license conditions. Dominion had elected not to include them in the early COLA submissions, although it was recognized that license conditions would eventually need to be developed. Our view was that the optimum time to develop proposed license conditions would occur during the NRC review process and be facilitated by two factors: 1) COLA content would become more stable as the NRC review progressed and the set of proposed license conditions would become more evident, and 2) the opportunity to be informed by actual license conditions issued to other COL holders. Both of these factors have now been realized.

At present, discussion on individual license conditions is taking place through the RAI process. Such an approach is piecemeal and inefficient. As discussed with the NRC Project Manager, Dominion proposes an alternate approach, to develop and submit a comprehensive set of license conditions for consideration by the NRC. To accomplish this, Dominion will review the North Anna Unit 3 COLA, the US-APWR DCD, and the Vogtle and V. C. Summer combined licenses to prepare the set of proposed license conditions.

### **Proposed COLA Revision**

A set of proposed license conditions will be added to COLA Part 10 in a future COLA submission on a schedule mutually agreed to with the NRC Project Manager.