

August 21, 2008

Mr. Eugene S. Grecheck
Vice President - Nuclear Development
Dominion
Innsbrook Technical Center
5000 Dominion Boulevard
Glen Allen, VA 23060-6711

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 028 (SRP
SECTIONS 01 and 02.04.02) RELATED TO THE NORTH ANNA UNIT 3
COMBINED LICENSE APPLICATION

Dear Mr. Grecheck:

By letter dated November 26, 2007, Dominion Virginia Power (Dominion) submitted a combined license application for North Anna Unit 3 pursuant to 10 CFR Part 52. The U. S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application.

The staff has identified that additional information is needed to continue portions of the review and the request for additional information (RAI) is contained in the enclosure to this letter. To support the review schedule, Dominion is requested to respond within 30 days of the date of this letter. If the RAI response involves changes to application documentation, Dominion is requested to include the associated revised documentation with the response.

Should you have questions, please contact me at (301) 415-0224 or Thomas.Kevern@nrc.gov.

Sincerely,

/RA/

Thomas A. Kevern, Senior Project Manager
ESBWR/ABWR Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket No. 52-017

Enclosure:
Request for Additional Information

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NRO-002

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DATE	08/19/08	08/20/08	08/20/08	08/21/08	08/21/08
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DATE	08/19/08	08/19/08	08/19/08	08/19/08	08/20/08

***Approval captured electronically in the electronic RAI system.**

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Request for Additional Information
North Anna, Unit 3
Dominion
Docket Number 52-017
SRP Sections: 01 - Introduction and Interfaces; 02.04.02 - Floods
Application: Part 1: General and Administrative Information;
FSAR Section 02.04.02

QUESTIONS

01-1

Please provide estimated costs for construction in whole dollar amounts as indicated in 10 CFR Part 50, Appendix C. Please provide this information separately for Dominion Virginia Power and Old Dominion Electric Cooperative. Whole dollar amounts should reflect overnight costs, with Construction Work in Progress (CWIP) and Allowance for Funds Used During Construction (AFUDC) as separate line items. Also indicate what "year dollar" the amounts reflect.

01-2

Pursuant to 10 CFR 52.77, which cites 10 CFR 50.33(f)(5), please address the following:

- a. Provide a declarative statement indicating the percentage ownership and responsibility between Dominion Virginia Power and Old Dominion Electric Cooperative for construction, for operation, and for decommissioning funding assurance.
- b. Identify, at this time, whether Dominion Virginia Power and Old Dominion Electric Cooperative anticipate any other major construction projects during the estimated time for construction of the North Anna Power Station Unit 3.

02.04.02-1

Based on the requirements associated with GDC 2, 10 CFR 52.79, and 10 CFR 100.20 (c), the applicant computed the effects of locally-intense precipitation falling on and near the site. Results from these computations are described in FSAR Section 2.4.2. On June 10, 2008, Dominion submitted the HEC-RAS input files that were used to compute the reported water surface elevation values. Based on staff's review of the FSAR and the HEC-RAS files, staff requests that Dominion explain why a 3-inch safety margin is sufficient to provide reasonable assurance that runoff from the Unit 3 site will not impact the Units 1 and 2 site (FSAR page 2-127). Specifically, staff requests that Dominion provide:

- a. Assurance that the 'as-built' site topography will match values provided in the HEC-RAS cross-sections (locations shown in FSAR Figure 2.4-203) and that this topography will remain static (or is a conservative assumption) considering the length of the Unit 3 licensing period;

- b. A description of provisions to prevent placement of obstructions or other channel blockages in key drainage canals throughout the Unit 3 licensing period, and hence justify the selected HEC-RAS model parameters (e.g, contraction/expansion coefficients, channel roughness, and channel geometry values);
- c. A description of how runoff from each building and parking lot shown in FSAR Figure 2.4-201 have been captured in the HEC-RAS model and hence are correctly represented in the sub-basin drainage boundaries shown in FSAR Figure 2.4-201.