

March 28, 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. 002  
(SRP SECTION 2.3.2.3) 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 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 any questions, please contact me at (301) 415-0224 or [TAK@nrc.gov](mailto:TAK@nrc.gov).

Sincerely,

*/RA/*

Andrea Johnson, 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

cc w/encl: See next page

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NRO-002

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DATE	03/20/08	03/20/08	03/20/08	03/27/08	03/28/08

\*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 Section: 02.03.02 - Local Meteorology  
Application Section: 2.3.2.3**

QUESTION

02.03.02-1

Please describe the quantitative analysis used to evaluate the potential impacts of the Unit 3 cooling tower on Unit 3 plant design and operation. Please discuss the effects of local increases in ambient temperature and humidity due to the cooling tower on electrical transmission lines and other electrical equipment, including transformers and the switchyard, and HVAC intakes. Please discuss the effects of salt and moisture deposition on the items identified above. Please provide enough detailed information concerning the analysis inputs and assumptions to allow the staff to perform its own confirmatory calculations.

Enclosure