

From: Tony.Banks@dom.com
Sent: Wednesday, July 23, 2008 12:25 PM
To: Alicia Williamson; Laura Quinn; Sandusky, William F III
Cc: Thomas Kevern; Joseph.Hegner@dom.com; Regina.Borsh@dom.com; Joyce.Livingstone@dom.com; Tony.Banks@dom.com
Subject: NAPS Unit 3 COL Application - NRC's Environmental Review Supplemental Information Needs #5 (Noise)

On May 16, 22, and 29, 2008, NRC staff and its contractor, Pacific Northwest National Laboratory (PNNL), held conference calls with representatives from Dominion to discuss a number of supplemental "information needs" to support the North Anna Power Station Unit 3 (NAPS) combined license application environmental review. Several of these information needs were identified during the environmental site audit conducted the week of April 14, 2008. Others were identified by subject matter reviewers following the audit.

This e-mail provides some of the requested information listed in NRC's June 16, 2008 letter, which included a total of 35 items. In certain instances, the file size may dictate that more than one e-mail will be needed to transmit the information. In those instances, the e-mail will clearly be identified as "x of y" to ensure accountability.

Please note that Dominion will respond to some of the information needs via e-mail, and to others by letter. In every case, Dominion's goal is to provide complete and accurate information in a timely manner. The use of both e-mail and letters to achieve this goal has been discussed with the NRC project managers.

To ensure that you have received the information, please acknowledge receipt of this transmission.

I can be contacted at (804) 273-2170 or (tony.banks@dom.com) if there are questions.

Thank you -

Tony Banks, MPH, CHMM
Dominion
ESP/COL Project
Environmental Lead

Information Need Request #5 (Noise)

Confirm that the noise produced by construction blasting is estimated to be 94 dBA at 50 feet and the attenuation will be 76 dBA at 400 ft.

Dominion Response

The noise produced by construction blasting is estimated to be 94 dBA at 50 feet from

the source and attenuation would result in approximately 76 dBA at 400 feet from the source. These values are confirmed in the U.S. Department of Transportation Federal Highway Administration's "Highway Construction Noise Handbook" found online at <http://www.fhwa.dot.gov/environMent/noise/handbook/index.htm>. Table 9.1 of this handbook is titled "RCNM Default Noise Emission Reference Levels and Usage Factors" and lists the noise produced by blasting at 50 feet to be 94 dBA. In Section 2.0 titled "Terminology" of this handbook, a note in the definition for "Point Source" states "Sound levels measured from a point source decrease at a rate of 6 dBA per doubling of distance." Based on this information, the noise measured at 400 feet would be 76 dBA.

Information Need Request #9 (Cooling Tower Design)

Please provide response or confirmation that the cooling tower design will be within heat duty constraints as specified in a letter from Rich Baker to David Batalo (Reference: ER section 5-3).

Dominion Response

The referenced letter described the understood limits of condenser heat duty for the circulating water system's cooling based on a cold water temperature (CWT) of 95°F, and based on preliminary condenser duty information provided by GEH. It also defined the Plant Service Water System (PSWS) normal operational heat duty and the total plant heat sink/heat exchanger duty.

Given the design heat duty constraint for normal station operation, the cooling towers' design will be specified to the stated parameters, and selected so as not to create variances to the ESP Application and COLA stated limits for:

- Maximum evaporation rates
- Long term water usage rate
- Lake level impacts
- Dam release rates

The cooling towers' design will be defined to meet COLA limits under the heat duty constraints defined by GEH to avoid the necessity for changes to the COLA.

Information Need Request #16 (Construction Land Area)

Provide updated information on the land area that would be temporarily disturbed in conjunction with North Anna Unit 3 construction activities.

Dominion Response

Dominion provided a response to COLA RAI Question ER Section 2.4-1, dated July 17, 2008. That response addressed COLA ER Supplemental Information Need #16 above.

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