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Sent: Wednesday, March 11, 2009 10:20 AM
To: Andrea Johnson
Subject: RAI 2249 - The RAI Document is Ready for Review
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Request for Additional Information No. 2249 Revision 0

North Anna, Unit 3

Dominion

Docket No. 52-017

SRP Section: 02.04.13 - Accidental Releases of Radioactive Liquid Effluents in Ground and Surface Waters

Application Section: 02.04.13

QUESTIONS for Hydrologic Engineering Branch (RHEB)

02.04.13-***

The purpose of this RAI is to address the requirements of 10 CFR 20, Appendix B, which requires that radionuclides released in liquid effluents do not result in concentrations at the nearest source of potable water that exceed the concentrations listed in Table 2, column 2.

Staff request additional information demonstrating that the applicant's transport analysis constitutes a bounding analysis, i.e. an analysis that is based on the largest or smallest parameter values measured onsite, which consequently calculates the highest receptor-point radionuclide concentrations consistent with onsite measurements.

As currently presented in the FSAR, the transport analysis uses a groundwater hydraulic conductivity (to compute groundwater velocity) that is less than the maximum value observed at the site. In addition, the transport analysis uses K_d values based on literature data that, in some cases, are greater than the minimum observed site-specific values. Staff request the results of a transport analysis that uses the maximum observed hydraulic conductivity and the minimum site-specific K_d values for comparison with the 10 CFR 20, Appendix B, Table 2 effluent concentration limits.