

NorthAnnaRAIsPEm Resource

From: Buckberg, Perry
Sent: Friday, December 12, 2014 3:11 PM
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Subject: North Anna 3 COLA RAI 152-7772 (02.04.13 - Accidental Releases of Radioactive Liquid Effluents in Ground and Surface Waters)
Attachments: NA3 COLA RAI 152 RPAC 7772.pdf

By letter dated November 26, 2007, Dominion Virginia Power (Dominion) submitted a Combined License Application for North Anna, Unit 3, pursuant to Title 10 of the *Code of Regulations*, Part 52. The U.S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this COLA.

The NRC staff has identified that additional information is needed to continue portions of the review and a Request for Additional Information (RAI), is enclosed. To support the review schedule, Dominion is requested to respond within 45 days of the date of this request. If the RAI response involves changes to the application documentation, Dominion is requested to include the associated revised documentation with the response.

Thanks,

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U.S. Nuclear Regulatory Commission

Office of New Reactors

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Application Title: North Anna, Unit 3 - Docket Number 52-017

Operating Company: Dominion

Docket No. 52-017

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

Application Section: 02.04.13

QUESTION 2.4.13-5:

Radioactive Source Term

The Health Physics staff will review the North Anna Unit 3 (NA3) proposed radionuclide distributions and concentrations assumed for the postulated failure of a tank and its components using the information presented by the applicant. The analysis assumes that a system component fails to meet the design bases as required by 10 CFR 50.34(a), and GDC 60 and 61. The staff will evaluate the basis and assumptions used in developing the source term, radionuclide distributions and concentrations to ensure that the highest potential radioactive material inventory is selected among the expected types of liquid and wet waste streams processed by plant systems. The radionuclide inventory for the NA3 tank and its components assumed to fail should be based on a conservative estimate of 80% capacity of that tank and its components.

Based on the information supplied by the applicant in the NA3 FSAR, no reference, basis or assumptions for the NA3 Condensate Storage Tank source term was provided. Please provide the NA3 reference, basis and assumptions for developing the source term, radionuclide concentrations and distributions to ensure that the highest potential radioactive material inventory was selected. Please provide the NA3 source term basis and assumptions.

Please address these items and provide a mark-up for the proposed NA3 FSAR changes if needed.