

## NorthAnnaRAIsPEm Resource

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**From:** Buckberg, Perry  
**Sent:** Tuesday, October 28, 2014 3:46 PM  
**To:** 'na3raidommailbox@dom.com' (na3raidommailbox@dom.com)  
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**Cc:** NorthAnnaRAIsPEm Resource; Weisman, Robert; Carpentier, Marcia; Hinson, Charles; Williams, Stephen; McCoppin, Michael  
**Subject:** North Anna 3 COLA RAI 135-7676 (12.02 - Radiation Sources)  
**Attachments:** NA3 COLA RAI 135 RPAC 7676.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 30 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

Mail Stop T-06D38M

Washington, DC, 20555-0001

**Hearing Identifier:** NorthAnna3\_eRAI  
**Email Number:** 71

**Mail Envelope Properties** (44CD2E65B0FF0E499CB32BC30CF781F0017C5F286E34)

**Subject:** North Anna 3 COLA RAI 135-7676 (12.02 - Radiation Sources)  
**Sent Date:** 10/28/2014 3:46:27 PM  
**Received Date:** 10/28/2014 3:46:30 PM  
**From:** Buckberg, Perry

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<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	1041	10/28/2014 3:46:30 PM
NA3 COLA RAI 135 RPAC 7676.pdf		95295

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**Priority:** Standard  
**Return Notification:** No  
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**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**

## **Request for Additional Information 135**

Issue Date: 10/28/2014

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

Operating Company: Dominion

Docket No. 52-017

Review Section: 12.02 - Radiation Sources

Application Section: 12.02

### **QUESTION 12.02-20**

The Guidance contained in Regulatory Guide (RG) 8.8, Information Relevant to Ensuring That Occupational Radiation Exposures at Nuclear Power Stations Will Be as Low as is Reasonably Achievable states that the applicant should estimate the quantity and isotopic composition of the radioactive material to be contained, deposited, or accumulated in station equipment. The guidance contained in RG 1.206, Combined License Applications for Nuclear Power Plants Section C.I.12.2.1 Contained Sources, states that the applicant is to provide the models, parameters and bases used to calculate source magnitudes, including isotopic composition for all values.

During the review of the Fermi 3 COL FSAR, the staff asked RAI 12.03-12.04-8 which requested that the applicant provide information on the Fermi Condensate Storage Tank (CST). The requested information included the physical location of the CST on site, a listing of the expected radionuclides in the CST, the dimensions, wall composition, and wall thickness of the CST, and the calculated maximum expected dose rate at 30 cm from the outside surface of the CST. The Fermi applicant responded to this RAI on October 19, 2010 (ML102940218). In Enclosure 5 of the NA3 applicant's December 18, 2013 letter to the NRC (ML14013A113), the applicant states that this Fermi 3 RAI response is addressed in the NA3 COLA. The staff notes that, although the wording relating to the NA3 CST in NAPS COL 12.2-4-A (in NA3 COL FSAR Section 12.2.1.5) is similar to the wording in STD COL 12.2-4-A in the Fermi 3 COL FSAR, the information in the referenced NA3 COL FSAR Table 12.2-205, "Bounding Radionuclide Concentration and Inventory in the Condensate Storage Tank," is slightly different than the bounding CST radionuclide concentration and inventory listed in Fermi COL FSAR Table 12.2-207. The staff notes that the CST location is provided on NA3 COL FSAR Figure 2.4-219.

Verify that the dimensions, wall composition, and wall thickness of the Fermi CST described in the Fermi applicant's October 19, 2010 RAI response to the staff also apply to the NA3 CST, or provide the size specifications for the NA3 CST.