

## PMNorthAnna3COLPEmails Resource

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**From:** Patel, Chandu  
**Sent:** Thursday, June 16, 2011 3:49 PM  
**To:** 'na3raidommailbox@dom.com'  
**Cc:** Weisman, Robert; NorthAnna3COL Resource; Otto, Ngola; Chuang, Tze-Jer  
**Subject:** RAI Letter No. 77, RAI 5639, Section 11.4, North Anna 3 COLA  
**Attachments:** RAI Letter 77 RAI 5639.doc

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.

Sincerely,  
Chandu Patel  
Lead Project Manager for NA3 COLA

**Hearing Identifier:** NorthAnna3\_Public\_EX  
**Email Number:** 974

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**Subject:** RAI Letter No. 77, RAI 5639, Section 11.4, North Anna 3 COLA  
**Sent Date:** 6/16/2011 3:49:22 PM  
**Received Date:** 6/16/2011 3:49:24 PM  
**From:** Patel, Chandu

**Created By:** Chandu.Patel@nrc.gov

**Recipients:**

"Weisman, Robert" <Robert.Weisman@nrc.gov>

Tracking Status: None

"NorthAnna3COL Resource" <NorthAnna3COL.Resource@nrc.gov>

Tracking Status: None

"Otto, Ngola" <Ngola.Otto@nrc.gov>

Tracking Status: None

"Chuang, Tze-Jer" <Tze-Jer.Chuang@nrc.gov>

Tracking Status: None

"na3raidommailbox@dom.com" <na3raidommailbox@dom.com>

Tracking Status: None

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RAI Letter 77 RAI 5639.doc		31738

**Options**

**Priority:** Standard

**Return Notification:** No

**Reply Requested:** No

**Sensitivity:** Normal

**Expiration Date:**

**Recipients Received:**

RAI Letter No. 77  
6/16/2011  
North Anna, Unit 3  
Dominion  
Docket No. 52-017  
SRP Section: 11.04 - Solid Waste Management System  
Application Section: SRP 11.4

QUESTIONS for Structural Engineering Branch 1 (AP1000/EPR Projects) (SEB1)

Request for Additional Information No. 5639

11.04-9

11.4.8 Combined License Information

*NAPS COL 11.4(1) Plant-specific needs for on-site waste storage*

In Appendix 11.4-A (Page 11-89), the applicant stated that the Interim Radwaste Storage Facility (IRSF) is classified as non-safety and non-seismic category, based on the fact that the location of the IRSF is separate and does not impact any safety and/or seismic class I structures and components. In order to support this statement, a plan layout showing the locations of the IRSF and other Seismic Category I buildings in the control area is required to show that, indeed, the separations are large enough to not impact the nearby safety-related structures in case of excessive displacements or collapse of the IRSF building under design basis loadings including SSE.

11.04-10

11.4.8 Combined License Information

*NAPS COL 11.4(1) Plant-specific needs for on-site waste storage*

In Appendix 11.4-A (Page 11-89), the applicant stated that the Interim Radwaste Storage Facility (IRSF) is classified as non-safety and non-seismic (NS) category. USAPWR DCD Sec. 3.2.1.1.3 (Page 3.2-4) defined this class of structures (NS) to have no safety-related function or nuclear safety design requirements, meaning the collapse of the structure is permissible. However, GDC 61 requires that RWMS that contain radioactivity be designed to assure adequate safety under normal and postulated accident conditions, including seismic loadings (GDC 2). Regulatory Guide (RG) 1.143, "Design Guidance for Radioactive Waste Management Systems, Structures and Components installed in Light-Water-Cooled Nuclear Power Plants," provides guidance for compliance with GDC 61 related to the design of the SWMS, including provisions and features to contain the radioactivity in the event of structural failure. Provide the proposed design features and approach to assure that the design of the IRSF will follow the guidelines provided in RG 1.143 or an alternative design method be proposed to satisfy the GDC 61 and GDC 2 requirements that , in the event of the failure of the IRSF due to a seismic SSE event, the radioactive release would not pose undue risk to public health and the environment required under 10CFR Part 20.