

PMNorthAnna3COLPEmails Resource

From: Patel, Chandu
Sent: Friday, May 13, 2011 12:50 PM
To: 'na3raidommailbox@dom.com'
Cc: Weisman, Robert; NorthAnna3COL Resource; Quinlan, Kevin; Otto, Ngola; Roy, Tarun
Subject: RAI 5639 (Section 11.4) and RAI 5732 (Section 2.3.1) for North Anna 3 COLA
Attachments: Draft RAI 5639.doc; Draft RAI 5732.doc

Please disregard the previous message without Subject. Please see attached Draft RAI 5639 for Section 11.4, and Draft RAI 5732 for Section 2.3.1 of North Anna 3 COLA. Please let me know if you need any clarification by COB May 18, 2011. Otherwise, it will be issued as final after May 18, 2011.

Sincerely,
Chandu Patel
Lead Project Manager for North Anna 3 COLA
DNRL, NRO

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Subject: RAI 5639 (Section 11.4) and RAI 5732 (Section 2.3.1) for North Anna 3 COLA
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Draft RAI 5639.doc	31738	
Draft RAI 5732.doc	30202	

Options

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Request for Additional Information No. 5639 (Draft)
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)

11.04-***

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.

RAI-11.4-SEB1-01

11.04-***

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.

RAI-11.4-SEB1-02

Request for Additional Information No. 5732 (Draft)
North Anna, Unit 3
Dominion
Docket No. 52-017
SRP Section: 02.03.01 - Regional Climatology
Application Section: Regional Climatology

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

02.03.01-***

FSAR Table 2.0-201 includes 100-year return period values for maximum dry bulb with coincident wet-bulb, and the maximum non-coincident wet-bulb temperature. However, the FSAR does not include a 100-year return period minimum dry bulb temperature for comparison against the US-APWR DCD 0% annual exceedance minimum dry bulb temperature.

Please include in FSAR Table 2.0-201 a 100-year return period minimum dry bulb temperature.

10 CFR 52.79(a)(1)(iii) states the COL FSAR shall include “the seismic, meteorological, hydrologic, and geologic characteristics of the proposed site with appropriate consideration of the most severe of the natural phenomena that have been historically reported for the site and surrounding area and with sufficient margin for the limited accuracy, quantity, and time in which the historical data have been accumulated.” The staff considers temperatures based on a 100-year return period to provide sufficient margin for the limited accuracy, quantity, and period of time in which the historical data have been accumulated as required by the regulation.