

NorthAnnaRAIsPEm Resource

From: Patel, Chandu
Sent: Thursday, August 18, 2011 3:38 PM
To: 'na3raidommailbox@dom.com'
Cc: Weisman, Robert; NorthAnnaRAIsPEm Resource; Galvin, Dennis; Graizer, Vladimir
Subject: RAI Letter No. 83, RAI 5939, Section 3.7.4, North Anna COLA
Attachments: RAI Letter 83 RAI 5939.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_eRAI
Email Number: 24

Mail Envelope Properties (8C658E9029C91D4D90C6960EF59FC0D63F0EEB9979)

Subject: RAI Letter No. 83, RAI 5939, Section 3.7.4, North Anna COLA
Sent Date: 8/18/2011 3:37:42 PM
Received Date: 8/18/2011 3:37:43 PM
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Tracking Status: None

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Tracking Status: None

Post Office: HQCLSTR02.nrc.gov

Files	Size	Date & Time
MESSAGE	818	8/18/2011 3:37:43 PM
RAI Letter 83 RAI 5939.doc		30930

Options

Priority: Standard

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received:

RAI Letter No. 83
8/18/2011
North Anna, Unit 3
Dominion
Docket No. 52-017
SRP Section: 03.07.04 - Seismic Instrumentation
Application Section: 03.07.04

QUESTIONS for Geosciences and Geotechnical Engineering Branch 2 (RGS2)

Request for Additional Information No. 5939

03.07.04-1

FSAR section 3.7.4.2 states that the free-field instrumentation will be installed "In the vicinity of the power block area at surface grade, on top of backfill material, and sufficiently far away from structures in order to appropriately measure free-field ground motion". FSAR section 3.7.4.1 states that "OBE motion is measured at plant grade with seismic instrumentation located in the free-field". The OBE is defined as 1/3 of the minimum site dependent SSE at site grade (elevation of 290 ft). FSAR Figures 3.7-213 and 3.7-214 demonstrate results of calculations of horizontal and vertical SSE and OBE, and their comparisons with the CSDRS.

Considering the site subsurface complexity and the varying elevation of the ground surface please specify at which location you are planning to put the free-field instrument and provide details how SSE and OBE spectra at plant grade were developed.