

PMNorthAnna3COLPEmails Resource

From: Patel, Chandu
Sent: Monday, August 15, 2011 4:44 PM
To: 'na3raidommailbox@dom.com'
Cc: Weisman, Robert; NorthAnnaRAIsPEm Resource; Roy, Tarun; Graizer, Vladimir
Subject: RAI Letter No. 82, RAI 5941, Section 2.5.4, North Anna 3 COLA
Attachments: RAI Letter 82 RAI 5941.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: 1042

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Subject: RAI Letter No. 82, RAI 5941, Section 2.5.4, North Anna 3 COLA
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From: Patel, Chandu

Created By: Chandu.Patel@nrc.gov

Recipients:

"Weisman, Robert" <Robert.Weisman@nrc.gov>
Tracking Status: None
"NorthAnnaRAIsPEm Resource" <NorthAnnaRAIsPEm.Resource@nrc.gov>
Tracking Status: None
"Roy, Tarun" <Tarun.Roy@nrc.gov>
Tracking Status: None
"Graizer, Vladimir" <Vladimir.Graizer@nrc.gov>
Tracking Status: None
"na3raidommailbox@dom.com" <na3raidommailbox@dom.com>
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RAI Letter No. 82

8/15/2011

North Anna, Unit 3

Dominion

Docket No. 52-017

SRP Section: 02.05.04 - Stability of Subsurface Materials and Foundations

Application Section: 02.05.04

QUESTIONS for Geosciences and Geotechnical Engineering Branch 2 (RGS2)

Request for Additional Information No. 5941

02.05.04-25

FSAR Sections 2.5.4.7.1, 3.7.2.1 and Appendix 3OO.1.1 state that the fill concrete has a minimum design compressive strength of 2,500 psi and a best estimate shear wave velocity of 7,000 ft/s.

Based on ACI-318, concrete with a compressive strength of 2500 psi will result in a shear wave velocity of approximately 6200 ft/s. Therefore, please describe and justify how you will assure that the fill concrete will attain the shear wave velocity used in the FIRS calculations of at least 7,000 ft/s.