

PMNorthAnna3COLPEmails Resource

From: Monarque, Stephen
Sent: Thursday, July 28, 2011 8:11 AM
To: na3raidommailbox@dom.com; Diane Aitken
Cc: Patel, Chandu; NorthAnna3COL Resource
Subject: North Anna Draft RAI 5942
Attachments: NA draft RAI 5942.docx

Diane,

I am sending you a draft of North Anna RAI 5942. Please let me know if a call is required.

Thanks,

Stephen Monarque
Project Manager
Comanche Peak COL
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301-415-1544

Hearing Identifier: NorthAnna3_Public_EX
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From: Monarque, Stephen

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North Anna, Unit 3

Dominion

Docket No. 52-017

SRP Section: 03.07.01 - Seismic Design Parameters

Application Section: SRP 3.7.1

QUESTIONS for Geosciences and Geotechnical Engineering Branch 2 (RGS2)

03.07.01-***

FSAR Section 2.5.4.7.1 describes creation of the eight S-wave velocity profiles for different structures used in Section 3.7.1 and Appendix 300. The FSAR states that those profiles are the result of a combination of different downhole velocity measurements. Except for the R/B velocity profile, there are no details in the FSAR that explain how the profiles were “combined” (see FSAR section 2.5.4.7.1, pages 2-298 – 2.300). Please provide a description discussing how each of those profiles were developed.

Also, please describe the process for developing the profiles along the East side of the plant’s footprint (e.g., the ESWP Tunnel and East PS/B) since there are no P-S suspension logging measurements in this area.

Finally, FSAR Section 2.5.4.7.1 (page 2-298) states that S-wave velocity values are averaged over 10-ft intervals (same for at least some of the other FIRS profiles) for the West PS/B and West PSFSV FIRS profiles. Since this approach is not standard practice for averaging S-wave velocities and since averaging over 10-ft interval will smooth impedance contrast gradients, please provide justification for the averaging approach.