

NorthAnnaRAIsPEm Resource

From: Buckberg, Perry
Sent: Friday, March 27, 2015 7:56 AM
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Cc: NorthAnnaRAIsPEm Resource; Shea, James; Karas, Rebecca; Graizer, Vladimir; Munson, Clifford
Subject: Draft North Anna 3 RAI 7820 - 02.05.02 - Vibratory Ground Motion
Attachments: Draft RAI_7820 3-27-15.docx

Hello,

Attached is draft vibratory ground motion related RAI 7810 for the North Anna 3 COLA.
Please let me know if you need clarification on this draft by CoB Tuesday 4/2/2015.

Thanks,

Perry Buckberg

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U.S. Nuclear Regulatory Commission

Office of New Reactors

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DRAFT Request for Additional Information - 7820

Issue Date: 3/27/2015

Application Title: North Anna, Unit 3 - Docket Number 52-017

Operating Company: Dominion

Docket No. 52-017

02.05.02 - Vibratory Ground Motion

Application Section: 2.5.2

QUESTION:

By letter dated February 23, 2015 (NA3-15-002), you provided revised Ground Motion Response Spectra (GMRS) for the North Anna Unit 3 COL application using the EPRI 2013 Ground Motion Model (GMM). For North Anna Power Station Units 1 and 2, on September 17, 2011, you provided a Summary Report of the August 23, 2011, Earthquake Response and Restart Readiness Determination Plan with the 5% damped response spectra of the base mat recordings of the August 23, 2011, Mineral, Virginia earthquake, shown in Attachment 3 of the report. The response spectra of these base mat earthquake recordings exceed the GMRS in the low frequency range. The planned North Anna 3 safety-related structures are designed to the Certified Seismic Design Response Spectra (CSDRS) in the ESBWR DCD, which envelopes both the GMRS and Unit 1 base mat recordings at low frequencies. To provide assurance that any future site-specific safety-related structures would be designed to spectra enveloping the GMRS and considering the maximum component of the actual recorded Mineral, Virginia earthquake, consistent with 10 CFR Part 50, Appendix A, GDC 2, please provide the criteria for design of future site-specific safety related structures that may be constructed during the life of the plant, consistent with Dominion's commitment for Units 1 and 2 (item No.10 of long term action commitment list, ML13135A637).