CCNPP3eRAIPEm Resource

From: Arora, Surinder
Sent: Thursday, December 16, 2010 8:07 AM
To: 'Poche, Robert'; 'cc3project@constellation.com'
Cc: CCNPP3eRAIPEm Resource; Cook, Christopher; Devlin, Stephanie; Colaccino, Joseph; Steckel, James; Wilson, Anthony; Vrahoretis, Susan
Subject: Draft RAI 284 RGS2 5295
Attachments: DRAFT RAI 284 RGS2 5295.doc

Rob,

Attached is DRAFT RAI No. 284 (eRAI No. 5295). You have until December 31, 2010 to review it and decide whether you need a clarification phone call to discuss the questions in the RAI before the final issuance. After the phone call or on December 31, 2010, the RAI will be finalized and sent to you for response. You will then have 30 days to provide a technically complete response or an expected response date for the RAI. **Please note that this RAI is a potential Open Item.**

Thanks.

SURINDER ARORA, PE
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US Nuclear Regulatory Commission

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Hearing Identifier: CalvertCliffs_Unit3Col_RAI
Email Number: 64

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Subject: Draft RAI 284 RGS2 5295
Sent Date: 12/16/2010 8:07:15 AM
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From: Arora, Surinder

Created By: Surinder.Arora@nrc.gov

Recipients:
"CCNPP3eRAIPEm Resource" <CCNPP3eRAIPEm.Resource@nrc.gov>
Tracking Status: None
"Cook, Christopher" <Christopher.Cook@nrc.gov>
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"Devlin, Stephanie" <Stephanie.Devlin@nrc.gov>
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"Colaccino, Joseph" <Joseph.Colaccino@nrc.gov>
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"Steckel, James" <James.Steckel@nrc.gov>
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"'Poche, Robert'" <Robert.Poche@constellation.com>
Tracking Status: None
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Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

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Options
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Request for Additional Information No. 284 (eRAI 5295)
DRAFT
12/16/2010

Calvert Cliffs Unit 3
UniStar
Docket No. 52-016
SRP Section: 02.05.02 - Vibratory Ground Motion
Application Section: 2.5.2

QUESTIONS for Geosciences and Geotechnical Engineering Branch 2 (RGS2)

02.05.02-22

In response to Question 2.5.2-5, which asks what impact the New Madrid Seismic Zone (NMSZ) may have on the CCNPP seismic hazard curves, UniStar stated that the NMSZ is 1200 km away from the site. UniStar did not include the NMSZ in its PSHA study because the EPRI (2004) ground motion prediction equations are defined only up to a distance of 1000km and the Modified Mercalli Intensity (MMI) value of IV at the CCNPP site during the 1811 NMSZ earthquake did not include damage to buildings. Even though the NMSZ is quite distant from the site, a preliminary confirmatory analysis by the NRC staff indicates that the NMSZ may contribute significantly to the 1-Hz hazard. Please provide and compare the 1-Hz hard rock hazard curves for the NMSZ, the Charleston source, and the total hazard of the CCNPP Unit 3 site.

This RAI is a potential Open Item.