

CCNPP3COLA PEmails

From: Arora, Surinder
Sent: Wednesday, December 02, 2009 7:44 AM
To: 'Poche, Robert'; 'cc3project@constellation.com'
Cc: CCNPP3COL Resource; Tabatabai, Sarah; Karas, Rebecca; Colaccino, Joseph; Miernicki, Michael; Biggins, James; Vrahoretis, Susan; Hair, Christopher
Subject: FINAL RAI No. 193 RGS1 3995
Attachments: FINAL RAI 193 RGS1 3995.doc

Rob,

Attached please find the subject request for additional information (RAI). The draft of this RAI was sent to you on November 16, 2009. No clarification phone call was requested during the draft review period on this RAI.

The schedule we have established for review of your application assumes technically correct and complete responses within 30 days of receipt of RAIs. For any RAIs that cannot be answered within 30 days, it is expected that a schedule date for submitting your technically correct and complete response will be provided to the staff within the 30 day period so that the staff can assess how this information will impact the review schedule.

Your response letter should also include a statement confirming that the response does or does not contain any sensitive or proprietary information.

Thanks.

SURINDER ARORA, PE
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From: Arora, Surinder

Created By: Surinder.Arora@nrc.gov

Recipients:

"CCNPP3COL Resource" <CCNPP3COL.Resource@nrc.gov>
Tracking Status: None
"Tabatabai, Sarah" <Sarah.Tabatabai@nrc.gov>
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Post Office: HQCLSTR01.nrc.gov

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Options

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Request for Additional Information No. 193 (eRAI 3995)

12/02/2009

Calvert Cliffs Unit 3

UniStar

Docket No. 52-016

SRP Section: 03.07.04 - Seismic Instrumentation

Application Section: 3.7.4

QUESTIONS for Geosciences and Geotechnical Engineering Branch 1 (RGS1)

03.07.04-4

In RAI 3.7.4-1, the staff asked the applicant to specify the OBE which would be used to determine whether shutdown would be required following a seismic event. Although the U.S. EPR DCD defined the OBE ground motion to be used in the RG 1.166 response spectra exceedance determination, the staff requested additional clarification from the COL applicant because of the presence of site-specific Category I structures (including the Ultimate Heat Sink Makeup Water Intake Structure), whose design response spectra may differ from the CSDRS and the SSE). In response to RAI 3.7.4.1, the applicant stated that the OBE is one-third the site SSE spectrum, and defined the site SSE as the envelope of the U.S. EPR FSAR European Utility Requirements (EUR) Soft Soil spectrum anchored at 0.15 g and the Regulatory Guide 1.60 spectrum anchored at 0.10 g.

RG 1.166 states that the OBE response spectrum check is performed using the lower of: 1) The spectrum used in the certified design, or 2) A spectrum other than (1) used in the design of any Seismic Category I structure. Based on its review of the applicant's response to RAI 3.7.4-1, the staff could not determine whether the OBE is consistent with the guidance provided in RG 1.166, because the applicant did not discuss the design response spectra of the site-specific Category I structures, which may differ from the CSDRS and the SSE.

The staff requests the applicant to discuss the appropriateness of the OBE with respect to the design spectra of the site-specific Category I structures. The staff also requests that the applicant clearly indicate the OBE in FSAR Section 3.7.4 and plot the OBE as part of FSAR Figure 3.7-5, which was provided by the applicant in its RAI response.