CCNPP3COLA PEmails

From: Arora, Surinder
Sent: Thursday, September 03, 2009 3:40 PM
To: Poche, Robert; Jennifer.McQueeney@unistarnuclear.com; michael.stevenson@unistarnuclear.com
Cc: CCNPP3COL Resource; Chakrabarti, Samir; Samaddar, Sujit; Colaccino, Joseph; Miernicki, Michael; Biggins, James; Simon, Marcia; Vrahoretis, Susan
Subject: CCNPP3 - DRAFT RAI 168 SEB2 3610
Attachments: Draft RAI 168 SEB2 3610.doc

Rob,

Attached is DRAFT RAI No. 168 (eRAI No. 3610). You have until September 18, 2009 to review it and decide whether you need a conference call to discuss it before the final issuance. After the call or after September 18, 2009, the RAI will be finalized and sent to you for response. You will then have 30 days to respond.

Thanks.

SURINDER ARORA, PE
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Subject: CCNPP3 - DRAFT RAI 168 SEB2 3610
Sent Date: 9/3/2009 3:40:04 PM
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From: Arora, Surinder

Created By: Surinder.Arora@nrc.gov

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MESSAGE	555	9/3/2009 3:40:07 PM
Draft RAI 168 SEB2 3610.doc	29178	

Options
Priority: Standard
Return Notification: No
Reply Requested: Yes
Sensitivity: Normal
Expiration Date:
Recipients Received:

Request for Additional Information No. 168 (eRAI 3610)
Draft
9/3/2009

Calvert Cliffs Unit 3
UniStar
Docket No. 52-016
SRP Section: 03.07.02 - Seismic System Analysis
Application Section: FSAR Section 3.7.2

QUESTIONS for Structural Engineering Branch 2 (ESBWR/ABWR Projects) (SEB2)

03.07.02-39

Follow-up Question to RAI 113, Question 03.07.02-27

In its response to RAI No. 113, Question 03.07.02-27, sent via letter UN#09-285 dated June 18, 2009, the applicant provided the basis for selecting the locations for generation of in-structure response spectra (ISRS) for the Ultimate Heat Sink (UHS) Makeup Water Intake Structure (MWIS), which is based on two locations of safety-related pumps on the operating deck at elevation 11.5 ft. The applicant further stated in the response that as the locations of safety-related piping and components are finalized supplemental ISRS will be generated. The approach is reasonable and acceptable to the staff. However, current text in FSAR Section 3.7.2.5 does not reflect this. Therefore, please revise FSAR Section 3.7.2.5 to clarify that the ISRS provided in Figures 3.7-39 through 3.7-41 are applicable only to the pumps or other equipment at the two locations at elevation 11.5 ft (3.51M), and that supplemental ISRS at additional locations will be generated on an as-needed basis.

The text in Section 3.7.2.4 states that the design response spectra for the UHS Electrical Building (EB) are envelope of half EUR soft soil ground motion response spectra with ZPA of 0.15g and ISRS developed for the operating deck of the UHS MWIS, and are used for structural design and equipment qualification purposes. However, in the response the applicant stated that SASSI analysis will be performed for development of ISRS for the EB. Therefore, please revise FSAR Section 3.7.2.4 to reflect that ISRS for the EB are developed from a SASSI analysis of the structure, and include in the FSAR the ISRS for appropriate slab elevations of the EB.

The applicant, in response to a request to clarify the source of ISRS for the pipe stress and support analysis within the U.S.EPR Certified Design, has stated that the ISRS are generated from the soil cases of U.S. EPR FSAR Section 3.7.1. However the specific soil cases and design response spectra used to generate the ISRS have not been identified. Therefore, please provide this additional information, and include the ISRS applicable to the NI, ESWB and EPGB in FSAR Section 3.7.2.5.