

CCNPP3eRAIPEm Resource

From: Arora, Surinder
Sent: Thursday, August 11, 2011 10:53 AM
To: Robert.Poche@unistarnuclear.com; 'cc3project@constellation.com'; Massie, Wayne A
Cc: CCNPP3eRAIPEm Resource; Chakrabarti, Samir; Thomas, Brian; Colaccino, Joseph; Miernicki, Michael; Wilson, Anthony; Vrahoretis, Susan; Ford, Tanya
Subject: Draft RAI 316 SEB2 5988
Attachments: DRAFT RAI 316 SEB2 5988.doc

Rob,

Attached is Draft RAI No. 316 (eRAI No. 5988). You have until August 25, 2011 to review it and decide whether you need a clarification phone call to discuss any questions in the RAI before the final issuance. After the phone call or on August 25, 2011, 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.

Thanks.

SURINDER ARORA, PE
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US Nuclear Regulatory Commission

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Options

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Request for Additional Information No. 316 (eRAI 5988)
DRAFT
8/11/2011

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

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

03.07.02-67

The Defense Nuclear Facilities Safety Board (DNFSB) issued a letter on April 8th, 2011 requesting that the Department of Energy (DOE) address technical and software quality assurance issues related to potentially erroneous seismic analyses performed using the SASSI subtraction method. Versions of SASSI are used by CCNPP3 in the seismic analyses of the ESWB (Bechtel Computer Code SASSI 2000, Version 3.1) and the CBIS (RIZZO Computer Code SASSI Version 1.3a) both of which are modeled as embedded structures. Therefore the subtraction issue may be of concern in the analyses of these structures if it was used in the SASSI modeling approach. It may also be a concern in any future analysis of the NI where embedment effects are considered.

To ensure the applicant has adequately met General Design Criteria (GDC) 1 and 2 to Part 50 and Appendix B to Part 50, the staff requests CCNPP3 to provide to following information:

- a. Identify whether the SASSI Subtraction method is used in the seismic analyses
- b. Describe how CCNPP3 addresses the technical and software quality assurance issues raised by DNFSB letter in the versions of SASSI which CCNPP3 uses for seismic analyses
- c. If the SASSI Subtraction method is used by CCNPP3, provide an assessment to establish: 1) the seismic analyses performed in support of the CCNPP3 COL application do not contain any errors or anomalies as identified in DNFSB letter, 2) QA steps taken to ensure any future seismic analyses in support of the CCNPP3 COL application will be free from errors or anomalies as identified in DNFSB letter