

CCNPP3eRAIPEm Resource

From: Arora, Surinder
Sent: Monday, January 27, 2014 1:40 PM
To: Infanger, Paul (paul.infanger@unistarnuclear.com); 'UNECC3Project@unistarnuclear.com' (UNECC3Project@unistarnuclear.com)
Cc: CCNPP3eRAIPEm Resource; Segala, John; Wilson, Anthony; Eudy, Michael; McLellan, Judith; Mrowca, Lynn; Pohida, Marie
Subject: CCNPP3 - DRAFT RAI 411 SPRA 7240
Attachments: DRAFT RAI 411 SPRA 7240.docx

Paul,

Attached is DRAFT RAI No. 411 (eRAI No. 7240) pertaining to Chapter 19 of the Calvert Cliffs Unit 3 FSAR. The two draft questions in this RAI are follow ups to UniStar's responses to the staff's previous questions, 19-28 and 19-29 respectively, issued in RAI 387 (eRAI6937). As discussed with you this morning, due to some problems with our eRAI system, the RAI question numbers have not been generated for this draft questions at this time; these will be included in the final RAI. You have until February 11, 2014 to review the draft question and request a clarification phone call to discuss the RAI before the final issuance. After the clarification phone call or after February 11, 2014, this draft RAI will be finalized and issued to you for providing your response. You will then have 30 days to provide a technically complete response or an expected response date, as applicable.

Thanks

SURINDER ARORA, PE
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Hearing Identifier: CalvertCliffs_Unit3Col_RAI
Email Number: 362

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Subject: CCNPP3 - DRAFT RAI 411 SPRA 7240
Sent Date: 1/27/2014 1:40:08 PM
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From: Arora, Surinder

Created By: Surinder.Arora@nrc.gov

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Options

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Request for Additional Information 411 (eRAI 7240)

Issue Date: 01/23/2014

Application Title: Calvert Cliffs Unit 3 - Docket Number 52-016

Operating Company: UniStar

Docket No. 52-016

Review Section: 19 - Probabilistic Risk Assessment and Severe Accident Evaluation

Application Section:

QUESTIONS

Question Number: To be assigned

This RAI is a Follow Up to RAI 387 (eRAI 6937), Question 19-28.

The staff has reviewed the applicant's response to RAI Question 19-28 and agrees with the applicant's proposed quantitative screening thresholds. However, shutdown high wind induced LOOPs are similar to LOOPs caused by loss of the switchyard at LPSD. Both initiating events result in a loss or interruption of the DHR function, and both initiating events are analyzed in the PRA. In order to be consistent with the high winds evaluation provided in FSAR Section 19.1.5, the staff requests for the applicant to please remove the exclusion of shutdown high wind events from the screening thresholds.

Question Number: To be assigned

This RAI is a Follow Up to RAI 387 (eRAI 6937), Question 19-29.

The staff has reviewed the applicant's response to RAI 19-29. The staff understands that the Transformer and Switchyard Areas and the Normal Heat Sink are non-safety related and not designed for high wind loads. The staff also reviewed NUREG/CR 6890 which reports in Table D-1 a plant specific weather related LOOP frequency of $3.8E-3$ per reactor year. The frequency was estimated by using a Bayesian update based on the industry frequency ($4.8E-3$ per reactor year from Table ES-2) as a prior and plant specific data from the period 1997-2004. These frequency estimates are different and lower than the design wind velocity of 102 mph per 100 year return period as documented in Section 3.3.1.1 of the FSAR. The staff requests for the applicant to please use the re-occurrence interval of 1/150 reactor year wind speed to confirm that extreme winds for the site (beyond the design wind speeds) do not affect the full power and shutdown CDF by more than 10% (positive or negative). In addition, please report the CDF values and the results if they exceed the 10% threshold.