

CCNPP3eRAIPEm Resource

From: Arora, Surinder
Sent: Monday, December 27, 2010 1:37 PM
To: 'Poche, Robert'; 'cc3project@constellation.com'
Cc: CCNPP3eRAIPEm Resource; Colaccino, Joseph; Raione, Richard; Steckel, James; Jones, Henry
Subject: Draft RAI 289 RHEB 5328
Attachments: DRAFT RAI 289 RHEB 5328.doc

Rob,

Attached is DRAFT RAI No. 289 (eRAI No. 5328) on Section 2.4 of CCNPP3 COL Application. You have until January 14, 2011** to review it and decide whether you need a conference call to discuss the questions in the RAI before the final issuance. After the phone call or after January 14, 2011, the RAI will be finalized and sent to you for a response. You will then have 30 days to provide a technically complete response or an expected response date for the RAI.

** - The draft review period stated here provides about an extra week to account for the holidays and reduced staff availability.

Thanks.

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Created By: Surinder.Arora@nrc.gov

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Options

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Request for Additional Information No. 289 (eRAI 5328)
DRAFT
12/27/2010

Calvert Cliffs Unit 3

UniStar

Docket No. 52-016

SRP Section: 02.04.05 - Probable Maximum Surge and Seiche Flooding
Application Section: FSAR Section 2.4.5

QUESTIONS for Hydrologic Engineering Branch (RHEB)

02.04.05-7

To meet the requirements of GDC 2, 10 CFR 52.17, and 10 CFR Part 100, estimates of the probable maximum hurricane (PMH) and the probable maximum storm surge are needed. The storm surge induced by the PMH should be estimated as recommended by Regulatory Guide 1.59, supplemented by current best practices. In RAI 249 Question 02.04.05-6, the staff asked the applicant to provide an analysis of the PMSS event using a conservative approach such as those predicted by a storm surge model (e.g., SLOSH) with input from appropriate PMH scenarios. In a response dated June 30, 2010, the applicant provided revisions to FSAR Sections 2.4.5.1 through 2.4.5.6. Upon further review of the applicant's submittal, the staff has identified that the applicant needs to provide the following additional information regarding the PMSS estimate.

- (a) More details regarding the various PMH tracks and their associated PMH parameters simulated by the applicant are needed. Provide a table of PMH tracks and associated parameters that were used in SLOSH simulations. Provide a description of the simulated PMSS characteristics and list the simulated PMSS water surface elevations for these simulations near the Unit 3 intake.
- (b) The antecedent water level has the potential to significantly affect the SLOSH simulations because of complex hydrodynamic interactions. Provide PMSS water surface elevation estimates that directly accounts for the antecedent water level in the SLOSH simulations.
- (c) Provide an updated estimate of wind wave effects.