CCNPP3eRAIPEm Resource

From: Arora, Surinder
Sent: Thursday, July 22, 2010 1:50 PM
To: 'Poche, Robert'; 'cc3project@constellation.com'
Cc: CCNPP3eRAIPEm Resource; Hawkins, Kimberly; Jeng, David; Colaccino, Joseph; Biggins, James; Vrahoretis, Susan; Miernicki, Michael; Chazell, Russell
Subject: DRAFT RAI 256 SEB2 4858
Attachments: DRAFT RAI 256 SEB2 4858.doc

Rob,

Attached is DRAFT RAI No. 256 (eRAI No. 4858). You have until August 3, 2010, to review this RAI and decide whether you need a conference call to discuss the question in this RAI before the final issuance. After the phone call or on August 3, 2010, 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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Request for Additional Information No. 256 (eRAI 4858)
DRAFT
7/22/2010

Calvert Cliffs Unit 3
UniStar
Docket No. 52-016
SRP Section: 14.03.02 - Structural and Systems Engineering - Inspections, Tests, Analyses, and Acceptance Criteria
Application Section: FSAR 14.3.2

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

14.03.02-7

The staff reviewed the response to Question 14.03.02-2 M provided in UniStar Letter UN#10-017 dated January 29, 2010 (ML100340596) and determined that the applicant's proposed revisions to the ITAAC tables, identified in its RAI response, address most of the items in the staff's RAI. However, the following items need additional clarification before the staff can make a final determination about the acceptability and completeness of the ITAAC revisions. Therefore the staff requests that the applicant submit the following supplemental information:

1. For the Turbine and Switchgear Buildings (also referred to as the common Turbine Island (TI) structure), the applicant's response did not state which criterion in SRP 3.7.2, Item 8 was being utilized to satisfy the requirements for the design of non-Category I structures. The applicant's response states that the TI structure is analyzed and designed for site-specific SSE loads. Thus, it appears that Criterion C is being utilized. If this is the case, the applicant is requested to clarify that the TI structure will be analyzed and designed to the same requirements as other Seismic Category I structures. If not, the applicant is requested to describe the analysis and design criteria being used for the TI structure and demonstrate that, under SSE conditions, the margin of safety for the structure is equivalent to that of Category I structures. Also, explain where this information is included in the FSAR; otherwise, include the information in the appropriate section(s) of the FSAR.

2. For the Circulating Water System (CWS) Makeup Water Intake Structure (MWIS), the applicant's response states that the design methodology for the steel superstructure meets the Acceptance Criteria 8.B of SRP 3.7.2. As stated in the original RAI, if criterion B is utilized, the applicant was requested to include as part of the ITAAC the technical basis for the determination that collapse of the non-Category I structure is acceptable. This should include a description of any additional loads imposed on any Category I SSCs that could be impacted and the method used to conclude that these loads are not damaging. Also, any protective shields installed to prevent direct impact on Category I SSCs should be described. The applicant's response did not provide this information and it is requested again to complete the response to this RAI. Without this information, the staff will not be able to conclude that the design methodology for the steel superstructure of the Circulating Water System (CWS) Makeup Water Intake Structure (MWIS) meets the Acceptance Criteria 8.B of SRP 3.7.2.

3. Based on the response to Items 1 and 2, the applicant is requested to update Tables 2.4-11, 12 and 19, accordingly.

4. The response to Question 14.03.02-2 M states that the Turbine Building, Switchgear Building and Circulating Water System Makeup Water Intake Structure are classified as Seismic Category II structures. However, CCNPP Unit 3 FSAR, Rev. 6, Table 3.2-1 states that these three structures are classified as "CS." Please clarify the classification of these structures, and revise the classification of these structures in the FSAR, Table 3.2-1, if necessary.

5. During its review of the response to RAI 14.03.02-2 M, the staff realized that Part 10 - ITAAC, Appendix B, Tables 2.4-11 through 2.4-20 may not cover all the non-Category I structures. For all of the non-Category I structures not covered by Appendix B Tables 2.4-11 through 2.4-20, including all Category II and Category II-SSE structures, provide the information requested in RAI 14.03.02-M. Also, include an ITAAC, Appendix B table for each of these structures or reference an existing Appendix B table that includes the requested information.