

CCNPP3eRAIPEm Resource

From: Arora, Surinder
Sent: Wednesday, May 11, 2011 1:46 PM
To: Robert.Poche@unistarnuclear.com; 'cc3project@constellation.com'
Cc: CCNPP3eRAIPEm Resource; Jeng, David; Hawkins, Kimberly; Colaccino, Joseph; Miernicki, Michael; Wilson, Anthony; Vrahoretis, Susan
Subject: Draft RAI 309 SEB2 5750
Attachments: DRAFT RAI 309 SEB2 5750.doc

Rob,

Attached is Draft RAI No. 309 (eRAI No. 5750). You have until May 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 May 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.

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Request for Additional Information No. 309 (eRAI 5750)
DRAFT
5/11/2011

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)

14.03.02-18

The staff reviewed the response to Question 14.03.02-2 K (Item 5) provided in UniStar Letter UN#10-217, dated August 6, 2010 (ML102230156). The response indicates that Items with ITAAC information related to the waterproof membrane for buried duct banks or waterproof wrapping or coating for buried pipes have been deleted from Table 2.4-9 in Rev. 6 of CCNPP Unit 3 ITAAC (now ITAAC Table 2.4-8 in Rev. 7) because the waterproofing system (membrane, wrapping or coating) does not serve a safety-related function as discussed in the response to Question 14.03.02-2 Item G in the same letter. The ITAAC Table 2.4-9 in Rev. 6 (now ITAAC Table 2.4-8 in Rev. 7) is for Category I buried duct banks and pipes.

The staff notes that, for buried duct banks and buried concrete pipes, it is acceptable not to include ITAAC information related to the waterproofing membrane in the ITAAC table, considering that the durability of below-grade concrete against aggressive groundwater will be achieved by using a low water/cementitious ratio and supplementary cementitious materials; however, for buried steel pipes/conduits, the waterproofing system (wrapping or coating) that is provided will be the only protection against the detrimental effects of aggressive groundwater. Since for such cases, the waterproofing membrane does serve a safety related function, it should be confirmed by ITAAC that such wrappings or coatings have been properly installed for the buried steel pipes/conduits.

Based on the above discussion, the staff requests that the applicant provide in ITAAC Table 2.4-8 in FSAR Rev. 7, ITAAC information related to the waterproofing wrapping or coating for buried steel pipes/conduits. The wording used in Item No. 8 of Table 2.4-9 in Rev. 6 of CCNPP Unit 3 ITAAC would be acceptable to the staff. The staff needs this information to be able to conclude in the SER that adequate ITAAC is proposed and there is reasonable assurance that adequate ITAAC, including the waterproofing system for buried steel pipes/conduits in aggressive groundwater will be implemented pursuant to 10 CFR 52.80(a).