

CCNPP3eRAIPEm Resource

From: Arora, Surinder
Sent: Tuesday, January 04, 2011 8:08 AM
To: 'Poche, Robert'; 'cc3project@constellation.com'
Cc: CCNPP3eRAIPEm Resource; Wheeler, Larry; Colaccino, Joseph; Hearn, Peter; Wilson, Anthony; Vrahoretis, Susan; Lee, Samuel
Subject: Draft RAI 287 SBPA 5324
Attachments: DRAFT RAI 287 SBPA 5324.doc

Rob,

Attached is DRAFT RAI No. 287 (eRAI No. 5324). You have until January 18, 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 January 18, 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. 287 (eRAI 5324)

DRAFT

1/4/2011

Calvert Cliffs Unit 3

UniStar

Docket No. 52-016

SRP Section: 09.02.05 - Ultimate Heat Sink

Application Section: 9.2.5

QUESTIONS for Balance of Plant Branch 1 (AP1000/EPR Projects) (SBPA)

09.02.05-19

The following EPR COL Information Items need to be addressed by the COL applicant in Section 9.2.5. Presently, CCNPP Unit 3 FSAR does not address these items.

Added by EPR FSAR Revision 2 (RAI 175 Supplement 2 Q9.2.5-20 – ML092120680)

9.2-5; A COL applicant that references the U.S. EPR design certification will provide a description of materials that will be used for the UHS at their site location, including the basis for determining that the materials being used are appropriate for the site location and for the fluid properties that apply.

To be added by EPR FSAR Revision 3 (RAI 351 Q9.2.5-29 response)

9.2-6; A COL applicant that references the U.S. EPR design certification will confirm by analysis of the highest average site-specific wet bulb and dry bulb temperatures over a 72-hour period from a 30-year hourly regional climatological data set that the site-specific evaporative and drift losses for the UHS are bounded by the values presented in Table 9.2.5-3.

To be added by EPR FSAR Revision 3 (RAI 351 Q9.2.5-29 response)

9.2-7; A COL applicant that references the U.S. EPR design certification will confirm that the maximum UHS cold-water return temperature of 95°F is met by an analysis that confirms that the worst combination of site-specific wet bulb and dry bulb temperatures over a 24-hour period from a 30-year hourly regional climatological data set are bounded by the values presented in Table 9.2.5-4

To be added by EPR FSAR Revision 3 (RAI 351 Q9.2.5-29 response)

9.2-8; A COL applicant that references the U.S. EPR design certification will confirm that the UHS makeup capacity is sufficient to meet the maximum evaporative and drift water loss after 72 hours through the remainder of the 30-day period consistent with RG 1.27.

To be added by EPR FSAR Revision 3 (RAI 351 Q9.2.5-24 response)

9.2-9; A COL applicant that references the U.S. EPR design certification will compare site-specific chemistry data for normal and emergency makeup water to the parameters in Table 9.2.5-5. If the specific data for the site fall within the assumed design parameters in Table 9.2.5-5, then the U.S. EPR standard design is bounding for the site. For site-specific normal and emergency makeup water data or characteristics that are outside the bounds of the assumptions presented in Table 9.2.5-5, the COL applicant will provide an analysis to confirm that the U.S. EPR UHS cooling towers are capable of removing the design basis heat load for a minimum of 30 days without exceeding the maximum specified temperature limit for ESWS and minimum required basin water level.