CCNPP3eRAIPEm Resource

From: Arora, Surinder
Sent: Friday, January 21, 2011 10:22 AM
To: 'Poche, Robert'; 'cc3project@constellation.com'; Scott, Roger D
Cc: CCNPP3eRAIPEm Resource; Wheeler, Larry; Lee, Samuel; Colaccino, Joseph; Hearn, Peter; Wilson, Anthony; Vrahoretis, Susan
Subject: Final RAI 277 SBPA 5301
Attachments: FINAL RAI 277 SBPA 5301.doc

Rob,

Attached please find the subject request for additional information (RAI). The draft of this RAI was sent to you on December 10, 2010. A clarification phone call requested by UniStar was held on January 20, 2011, which resulted in minor changes to draft RAI questions 9.2.1-1 and 9.2.1-2. These changes are reflected in this final RAI

The schedule we have established for review of your application assumes technically correct and complete responses within 30 days of receipt of RAIs. For any RAIs that cannot be answered within 30 days, it is expected that a schedule date for submitting your technically correct and complete response will be provided to the staff within the 30 day period so that the staff can assess how this information will impact the review schedule.

Your response letter should also include a statement confirming that the response does or does not contain any sensitive or proprietary information.

Thanks.

SURINDER ARORA, PE
PROJECT MANAGER,
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Hearing Identifier: CalvertCliffs_Unit3Col_RAI
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Request for Additional Information No. 277 (eRAI 5301)

1/21/2011

Calvert Cliffs Unit 3
UniStar
Docket No. 52-016
SRP Section: 09.02.01 - Station Service Water System
Application Section: 9.2.1

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

09.02.01-1

The U.S. EPR design has defined the value for the UHS emergency makeup. As described in Tier 2 FSAR Table 9.2.5-2; "Ultimate Heat Sink Design Parameters," the "required cooling tower emergency makeup flow, post DBA plus 72 hours through 30 days" is defined as 300 gpm (1136 lpm) per UHS cooling tower. In Section 9.2.1.1 of the CCNPP3 FSAR, Revision 7, the COL applicant states that the "maximum evaporative loss from a UHS cooling tower during the post 72 hours DBA is 225 gpm (852 lpm)". Provide clarification in the CCNPP3 FSAR between the EPR required cooling tower emergency makeup flow rate and the maximum evaporative losses at the CCNPP site and justify the pump capacity utilized to meet this emergency makeup flow rate.

09.02.01-2

As a follow up to RAI 164 Q8.3.1-12 and the review of the cathodic protection system, the staff determined that the CCNPP Unit 3 COL applicant did not adequately describe this system. Since the applicant has taken credit for cathodic protection to provide system longevity and ESWS corrosion protection (Section 9.2.1), this cathodic protection system should be adequately described in the FSAR.

09.02.01-3

Post DBA, the applicant stated that no chemical treatment in the ESWS basin is required and the corrosive effects of Chesapeake Bay water on the ESWS piping and components have been evaluated and determined to have a negligible effect on the ability of the ESWS to perform its safety function for short term operation post-DBA. The applicant should describe in the CCNPP Unit 3 FSAR and provide an explanation to support this statement that chemical treatment is not necessary from 72 hours post DBA out through 30 days.