CCNPP3COLA PEmails

From: Arora, Surinder
Sent: Wednesday, September 16, 2009 10:20 AM
To: Poche, Robert; Jennifer.McQueeney@unistarnuclear.com; michael.stevenson@unistarnuclear.com
Cc: CCNPP3COL Resource; Mazaika, Michael; Lauron, Carolyn; Colaccino, Joseph; Biggins, James; Vrahoretis, Susan; Hair, Christopher
Subject: CCNPP3 - DRAFT RAI 185 RSAC 3695
Attachments: Draft RAI 185 RSAC 3695.doc

Rob,

Attached is DRAFT RAI No. 185 (eRAI No. 3695). You have until September 30, 2009 to review it and decide whether you need a conference call to discuss it before the final issuance. After the call or after September 30, 2009, the RAI will be finalized and sent to you for response. You will then have 30 days to respond.

Thanks.

SURINDER ARORA, PE
PROJECT MANAGER,
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Hearing Identifier: CalvertCliffs_Unit3Cola_Public_EX
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Subject: CCNPP3 - DRAFT RAI 185 RSAC 3695
Sent Date: 9/16/2009 10:19:55 AM
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From: Arora, Surinder

Created By: Surinder.Arora@nrc.gov

Recipients:
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Tracking Status: None
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Draft RAI 185 RSAC 3695.doc	30714	

Options
Priority: Standard
Return Notification: No
Reply Requested: Yes
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Request for Additional Information No. 185 (eRAI 3695)
Draft
9/16/2009

Calvert Cliffs Unit 3
UniStar
Docket No. 52-016
SRP Section: 02.03.01 - Regional Climatology
Application Section: 2.3.1.2.2.13

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

02.03.01-33

The Staff considered the response to RAI Question No. 02.03.01-8 for the COL FSAR, submitted on October 30, 2008 (ML083100776), in particular revised Paragraph 10 in COL FSAR Section 2.3.1.2.2.13. Revised Paragraph 10 identifies:

- another meteorological condition (i.e., maximum one-hour dry-bulb temperature) to be considered in relation to the closed loop hybrid cooling towers which appear to serve as both the normal heat sink and the Ultimate Heat Sink (UHS); and
- the maximum one-hour dry-bulb temperatures observed at Baltimore, MD (i.e., 105 ^{o}F) over the period 1951 to 2002 and at the Patuxent River Naval Air Station (NAS) (i.e., 103 ^{o}F) over the period 1978 to 2007.

The Staff has a concern over the inclusion of what appears to be information and data without a discussion that establishes its relevance to the UHS design or how the acceptability of these site-specific characteristics is to be evaluated. Therefore, in order to fully resolve the Staff's concern, the Applicant should address the following technical issues and revise related sections in the COL FSAR accordingly:

(a) Explain the relationship between and the representativeness of the maximum one-hour dry-bulb temperature values for Baltimore and Patuxent River NAS to the Calvert Cliffs Unit 3 site.

(b) Explain how these maximum one-hour dry-bulb temperature values relate to the UHS design, their relationship to the 72-hour controlling period for estimating maximum evaporation from and the 24-hour controlling period for estimating minimum water cooling in the UHS, and their relationship to the 0% and 1% exceedance maximum dry-bulb temperatures given in Paragraph 9 of Section 2.3.1.2.2.13.

(c) If all or part of revised Paragraph 10 is retained, then pursuant to the guidance in Reg. Guide 1.206, Section C.I.2.3.1.2, Paragraph 2, identify the specific systems or components that utilize these maximum one-hour dry-bulb temperature values for design purposes and provide cross-references to the specific COL and/or U.S. EPR FSAR sections where these conditions are used.

(d) If all or part of revised Paragraph 10 is deleted, then explain the rationale for doing so.