CCNPP3COLA PEmails

From: Rycyna, John
Sent: Thursday, July 09, 2009 1:40 PM
To: Poche, Robert; michael.stevenson@unistarnuclear.com; McQueeney, Jennifer; katie.thurstin@unistarnuclear.com
Cc: CCNPP3COL Resource; Wheeler, Larry; Bloom, Steven; Hearn, Peter; Colaccino, Joseph; Biggins, James; Vrahoretis, Susan; Simon, Marcia
Subject: FW: Draft RAI No 125 SBPA 2595.doc
Attachments: Draft RAI No 125 SBPA 2595.doc

Rob,

DRAFT RAI No. 125 is withdrawn based on discussions in the July 7, 2009 call.

John Rycyna, PE
Sr. Project Manager
Division of New Reactor Licensing
Office of New Reactors
U.S. Nuclear Regulatory Commission
301-415-4122

From: Rycyna, John
Sent: Friday, June 26, 2009 1:17 PM
To: Poche, Robert; 'michael.stevenson@unistarnuclear.com'; McQueeney, Jennifer; 'katie.thurstin@unistarnuclear.com'
Cc: CCNPP3COL Resource; Wheeler, Larry; Bloom, Steven; Hearn, Peter; Colaccino, Joseph; Biggins, James; Vrahoretis, Susan; Simon, Marcia
Subject: Draft RAI No 125 SBPA 2595.doc

Rob,

Attached is DRAFT RAI No. 125. You have until July 14, 2009 to review it and to decide whether you need a conference call to discuss it. After the call or after July 14, 2009 the RAI will be finalized and sent to you. You then have 30 days to respond.

John Rycyna, PE
Sr. Project Manager
Division of New Reactor Licensing
Office of New Reactors
U.S. Nuclear Regulatory Commission
301-415-4122

Hearing Identifier: CalvertCliffs_Unit3Cola_Public_EX
Email Number: 797

Mail Envelope Properties (499C2FC6BB962446994CA8682D8ADF33188C0B411F)

Subject: FW: Draft RAI No 125 SBPA 2595.doc
Sent Date: 7/9/2009 1:39:31 PM
Received Date: 7/9/2009 1:39:33 PM
From: Rycyna, John

Created By: John.Rycyna@nrc.gov

Recipients:
"CCNPP3COL Resource" <CCNPP3COL.Resource@nrc.gov>
Tracking Status: None
"Wheeler, Larry" <Larry.Wheeler@nrc.gov>
Tracking Status: None
"Bloom, Steven" <Steven.Bloom@nrc.gov>
Tracking Status: None
"Hearn, Peter" <Peter.Hearn@nrc.gov>
Tracking Status: None
"Colaccino, Joseph" <Joseph.Colaccino@nrc.gov>
Tracking Status: None
"Biggins, James" <James.Biggins@nrc.gov>
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"Vrahoretis, Susan" <Susan.Vrahoretis@nrc.gov>
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"Simon, Marcia" <Marcia.Simon@nrc.gov>
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"Poche, Robert" <Robert.Poche@constellation.com>
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"michael.stevenson@unistarnuclear.com" <michael.stevenson@unistarnuclear.com>
Tracking Status: None
"McQueeney, Jennifer" <Jennifer.McQueeney@unistarnuclear.com>
Tracking Status: None
"katie.thurstin@unistarnuclear.com" <katie.thurstin@unistarnuclear.com>
Tracking Status: None

Post Office: HQCLSTR02.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	1058	7/9/2009 1:39:33 PM
Draft RAI No 125 SBPA 2595.doc	25710	

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

Request for Additional Information No. 125
DRAFT
6/26/2009

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 essential service water system (ESWS) must be capable of removing heat from systems, structures and components (SSCs) important to safety during normal operating and accident conditions over the life of the plant in accordance with General Design Criteria (GDC) 44 requirements. Standard Review Plan Section 9.2.1, "Station Service Water System," Sections II and III provide guidance on the specific information that should be included in the application for evaluation by the staff.

The Calvert Cliffs Nuclear Power Plant (CCNPP) Unit 3 ESWS cooling towers are designed in accordance with Regulatory Guide 1.27, "Ultimate Heat Sink for Nuclear Power Plants, Revision 2, January 1976," and the requirements of U.S. Evolutionary Power Reactor (EPR) Final Safety Analysis Report (FSAR) Table 2.1-1, "U.S. EPR Site Design Envelope." As stated in EPR FSAR Table 2.1-1, the design envelope of the air temperature with 0% exceedance value is 115°F dry bulb with 80°F wet bulb (coincident) or 81°F wet bulb (non-coincident). The design envelope of the air temperature at 1% exceedance value is 100°F dry bulb with 77°F coincident or 80°F wet bulb (non-coincident). This data also appears in the CCNPP Unit 3 FSAR, Table 2.0-1, "US EPR Site Design Envelope Comparison."

As stated in the CCNPP Unit 3 FSAR, Section 9.2.1, the site maximum calculated specific wet bulb temperature at 0% exceedance is 85°F wet bulb with a coincident dry bulb temperature of 99°F. This section of the CCNPP Unit 3 FSAR further states that "The 0% exceedance criterion means that the wet bulb temperature does not exceed the 0% exceedance value for more than two consecutive occurrences." The higher wet bulb temperature of 85°F, which is the controlling factor for establishing the tower basin water temperature is above the design parameters described in the EPR FSAR. The staff has determined that the higher wet bulb temperature of 85°F, which is a design input into the determination of the cooling tower performance at CCNPP Unit 3, is a departure from the EPR FSAR, which states the design parameters are 80°F wet bulb / 115°F dry bulb (coincident). Provide the basis for the departure and provide the necessary changes to the CCNPP Unit 3 FSAR stating that this is a departure from the EPR FSAR.