CCNPP3COLA PEmails

From: Rycyna, John
Sent: Tuesday, July 14, 2009 9:20 AM
To: Poche, Robert; McQueeney, Jennifer; katie.thurstin@unistarnuclear.com; michael.stevenson@unistarnuclear.com
Cc: CCNPP3COL Resource; Arora, Surinder; Segala, John; Miernicki, Michael; Colaccino, Joseph; Biggins, James; Vrahoretis, Susan; Simon, Marcia; Shum, David
Subject: RAI No 122 SBPB 2449.doc
Attachments: RAI No 122 SBPB 2449.doc

Rob,

Attached please find the subject request for additional information (RAI). A draft of the RAI was provided to you on June 26, 2009. No conference call was requested to discuss this 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 date for receipt of this information will be provided to the staff within the 30 day period so that the staff can assess how this information will impact the published schedule.

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: 783

Mail Envelope Properties (499C2FC6BB962446994CA8682D8ADF33188C1778BD)

Subject: RAI No 122 SBPB 2449.doc
Sent Date: 7/14/2009 9:19:30 AM
Received Date: 7/14/2009 9:19:33 AM
From: Rycyna, John

Created By: John.Rycyna@nrc.gov

Recipients:
"CCNPP3COL Resource" <CCNPP3COL.Resource@nrc.gov>
Tracking Status: None
"Arora, Surinder" <Surinder.Arora@nrc.gov>
Tracking Status: None
"Segala, John" <John.Segala@nrc.gov>
Tracking Status: None
"Miernicki, Michael" <Michael.Miernicki@nrc.gov>
Tracking Status: None
"Colaccino, Joseph" <Joseph.Colaccino@nrc.gov>
Tracking Status: None
"Biggins, James" <James.Biggins@nrc.gov>
Tracking Status: None
"Vrahoretis, Susan" <Susan.Vrahoretis@nrc.gov>
Tracking Status: None
"Simon, Marcia" <Marcia.Simon@nrc.gov>
Tracking Status: None
"Shum, David" <David.Shum@nrc.gov>
Tracking Status: None
"Poche, Robert" <Robert.Poche@constellation.com>
Tracking Status: None
"McQueeney, Jennifer" <Jennifer.McQueeney@unistarnuclear.com>
Tracking Status: None
"katie.thurstin@unistarnuclear.com" <katie.thurstin@unistarnuclear.com>
Tracking Status: None
"michael.stevenson@unistarnuclear.com" <michael.stevenson@unistarnuclear.com>
Tracking Status: None

Post Office: HQCLSTR02.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	766	7/14/2009 9:19:33 AM
RAI No 122 SBPB 2449.doc	25198	

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

Request for Additional Information No. 122

7/14/09

Calvert Cliffs Unit 3
UniStar
Docket No. 52-016
SRP Section: 03.05.01.04 - Missiles Generated by Tornadoes and Extreme Winds
Application Section: 3.5.1.4 - Missiles Generated by Tornadoes and Extreme Winds

QUESTIONS for Balance of Plant Branch 2 (ESBWR/ABWR) (SBPB)

03.05.01.04-1

RAI 3.5.1.4-01

GDC 4 requires, in part, that structures, systems and components (SSCs) important to safety shall be appropriately protected against the effects of missiles generated from tornadoes or extreme winds. In the Calvert Cliffs Nuclear Power Plant (CCNPP) Unit 3 FSAR, Revision 2, Section 3.5.1.4, "Missiles Generated by Tornadoes and Extreme Winds," UniStar (applicant) stated that Category I structures on the Nuclear Island (NI) basemat meet the Region I tornado missile protection requirements. Additionally, the walls and roof slabs of all Category I structures outside the NI basemat meet the Region I tornado missile protection requirements including automobile missile impacts for all elevations except for the roof slab of the Essential Service Water Cooling Tower (ESWCT) and pump structures. UniStar concluded that since the height of the ESWCT and pump structures is approximately 29 m (96 ft), which is above the maximum automobile missile impact height of 23.8 m (78 ft), the roof slabs on these structures would not require automobile missile evaluation. However, as shown in EPR FSAR Tier 2 Revision 0, Figure 3.8-101, the staff found that the elevation of the essential service water (ESW) pump structure roof slab is 19.2 m (63 ft), which is below the maximum automobile missile impact height. Therefore, provide discussion to verify that the ESW pump structure roof slab is capable of withstanding the impact of an automobile missile.