

CCNPP3COLA PEmails

From: Steckel, James
Sent: Thursday, June 23, 2011 2:51 PM
To: CCNPP3COLA PEmails
Subject: FW: RAI No 100 RHEB 2088.doc (PUBLIC)
Attachments: RAI No 100 RHEB 2088.doc

From: John Rycyna
Sent: Monday, April 20, 2009 4:32 PM
To: Poche, Robert; McQueeney, Jennifer; katie.thurstin@unistarnuclear.com
Cc: CCNPP3COL Resource; Henry Jones; Richard Raione; Joseph Colaccino; Adam Gendelman; James Biggins
Subject: RAI No 100 RHEB 2088.doc (PUBLIC)

Rob,

Attached please find the subject request for additional information (RAI). A draft of the RAI was provided to you on April 3, 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: 2410

Mail Envelope Properties (0AA17736E4C4154CA37233EEBFC8DEB27400C0E1EB)

Subject: FW: RAI No 100 RHEB 2088.doc (PUBLIC)
Sent Date: 6/23/2011 2:50:44 PM
Received Date: 6/23/2011 2:50:44 PM
From: Steckel, James

Created By: James.Steckel@nrc.gov

Recipients:
"CCNPP3COLA PEmails" <CCNPP3COLA.PEmails@nrc.gov>
Tracking Status: None

Post Office: HQCLSTR02.nrc.gov

Files	Size	Date & Time
MESSAGE	1062	6/23/2011 2:50:44 PM
RAI No 100 RHEB 2088.doc	25198	

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

Request for Additional Information No. 100
4/20/2009

Calvert Cliffs Unit 3
UniStar
Docket No. 52-016
SRP Section: 02.04.02 - Floods
Application Section: FSAR Section 2.4

QUESTIONS for Hydrologic Engineering Branch (RHEB)

02.04.02-1

In order to assure that the locally-intense precipitation flood event will not adversely impact the Unit 3 safety-related SSCs, and that construction of Unit 3 will be compliant with 10 CFR 52.79(a)(31), the following additional information needs to be reflected in appropriate sections of the FSAR, as appropriate:

Clearly identify locations where supercritical flows are likely to occur. Also indicate locations where PMP-generated flood events produce velocities significantly larger than the design velocity for the channel bed material (i.e., where damage exceeding normal maintenance would result). For these locations, describe how failure of these drainage features will not degrade any structures related to safety.

Clearly identify locations where hydraulic jumps are likely to form during the flooding event and provide a description of fortification measures to ensure that hydraulic forces induced by the jumps do not erode or degrade conveyance of ditches.

If the hydraulic structures are expected to fail during the Probable Maximum Precipitation generated flood event, provide a description describing how failure will not degrade any structures related to safety.

Provide a detailed description of the lateral-structure flow simulated in the numerical model. Include details regarding the expected flow path, depth and velocity of flow, erosion control measures, and a list of buildings and structures that are intercepted along the flow path.

Provide a description of Administrative Controls or surveillance requirements to ensure the ditches remain clear of obstructions, the side-slopes remain stable, and that the site-drainage system will function as described in the FSAR considering the length of the Unit 3 licensing period.