

CCNPP3eRAIPEm Resource

From: Arora, Surinder
Sent: Monday, January 30, 2012 3:29 PM
To: Infanger, Paul; UNECC3Project@unistarnuclear.com
Cc: CCNPP3eRAIPEm Resource; Segala, John; Wilson, Anthony; Vrahoretis, Susan; Kavanagh, Kerri; Keim, Andrea; Jaffe, David
Subject: Draft RAI 337 CQVP 6235
Attachments: Draft RAI 337 CQVP 6235.doc

Attached is DRAFT RAI No. 337 (eRAI No. 6235). You have until February 13, 2012 to review it and decide whether you need a conference call to discuss the RAI before the final issuance. After the phone call or after February 13, 2012, the RAI will be finalized and sent to you for your response. You will then have 30 days to provide a technically complete response or an expected response date for the RAI.

Thanks

SURINDER ARORA, PE
PROJECT MANAGER,
Office of New Reactors
US Nuclear Regulatory Commission

Phone: 301 415-1421
FAX: 301 415-6406
Email: Surinder.Arora@nrc.gov

Hearing Identifier: CalvertCliffs_Unit3Col_RAI
Email Number: 177

Mail Envelope Properties (B46615B367D1144982B324704E3BCEED8B97662B58)

Subject: Draft RAI 337 CQVP 6235
Sent Date: 1/30/2012 3:28:59 PM
Received Date: 1/30/2012 3:28:59 PM
From: Arora, Surinder

Created By: Surinder.Arora@nrc.gov

Recipients:

"CCNPP3eRAIPEm Resource" <CCNPP3eRAIPEm.Resource@nrc.gov>
Tracking Status: None
"Segala, John" <John.Segala@nrc.gov>
Tracking Status: None
"Wilson, Anthony" <Anthony.Wilson@nrc.gov>
Tracking Status: None
"Vrahoretis, Susan" <Susan.Vrahoretis@nrc.gov>
Tracking Status: None
"Kavanagh, Kerri" <Kerri.Kavanagh@nrc.gov>
Tracking Status: None
"Keim, Andrea" <Andrea.Keim@nrc.gov>
Tracking Status: None
"Jaffe, David" <David.Jaffe@nrc.gov>
Tracking Status: None
"Infanger, Paul" <paul.infanger@unistarnuclear.com>
Tracking Status: None
"UNECC3Project@unistarnuclear.com" <UNECC3Project@unistarnuclear.com>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	619	1/30/2012 3:28:59 PM
Draft RAI 337 CQVP 6235.doc	32762	

Options

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

Request for Additional Information No. 237 (eRAI 6235)
DRAFT
1/30/2012

Calvert Cliffs Unit 3
UniStar
Docket No. 52-016

SRP Section: 14.02 - Initial Plant Test Program - Design Certification and New License Applicants
Application Section: 14.2.14.2

QUESTIONS for Quality and Vendor Branch 1 (AP1000/EPR Projects) (CQVP)

14.02-58

This is a follow-up to RAI 173 (eRAI2972), Question 14.02-51.

The following items are not specifically stated as being tested and should be included in the test abstract:

- Testing of screen water system and pumps, travelling screens, and strainers.
- Verification of minimum Technical Specification flow rates for the system.
- Testing of water hammer design features, such as time delays on valves.
- Testing of normal or accident ESW (Essential Service Water) basin makeup controls.

Based on the applicant's response to the above question, the NRC staff has identified additional areas that need to be addressed in FSAR Section 14.2.14.2.

- Net positive suction head available should be verified against net positive suction head required ($NPSH_a > NPSH_r$) for the UHS safety-related makeup water pumps.
- Testing of NS-AQ components such as the travelling screens, and screen wash pumps and related motor operated valves verifying proper operations, utilizing normal and 1E power.
- Manual fill and automatic fill sequence of the UHS makeup water system. Verify there is no evidence of water hammer during the filling process.
- It is unclear if the travelling screens and screen wash pumps are operated from the main control room or local panel in the UHS makeup water intake structure. This should be clarified and added to FSAR Section 14.2.14.2.
- Verify that the mini-flow valve opens on failure to open of the UHS makeup water pump discharge valve.
- Verification of the heat tracing (and alarms) associated at the UHS makeup water intake structure operates correctly.
- Strainer 'debris removal' line should be change to 'blowdown' line (see RAI 279, Question 09.02.05-17, item 9).

The applicant needs to address the comment below for Section 14.2.14.3, "Essential Service Water Blowdown System":

- 'Alternate' blowdown should be changed to 'emergency' blowdown to be consistent with RAI 279, Question 09.02.05-7, item 9).

The applicant needs to address the comment below for Section 14.2.14.4, "Essential Service Water Chemical Treatment System":

- RAI 279, Question 09.02.05-7, item 20 removed the chemical treatment subsystem for the UHS makeup water system since the system is normally in dry layup. The chemical addition for UHS Makeup Water system is done only during full flow testing, utilizing portable chemical skids and totes. Section 14.2.14.4 should reflect this change.