CCNPP3COLA PEmails

From: John Rycyna
Sent: Thursday, January 29, 2009 10:53 AM
To: Poche, Robert; McQueeney, Jennifer
Cc: CCNPP3COL Resource; Samantha Crane; Juan Peralta; Michael Miernicki; Joseph Colaccino; Meena Khanna; James Biggins; Adam Gendelman
Subject: RAI No 52 CQVP 1679.doc
Attachments: RAI No 52 CQVP 1679.doc

Rob,

Attached please find the subject request for additional information (RAI). A draft of the RAI was provided to you on January 15, 2008. 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: 495

Mail Envelope Properties (499C2FC6BB962446994CA8682D8ADF3316CB4B64BF)

Subject: RAI No 52 CQVP 1679.doc
Sent Date: 1/29/2009 10:52:43 AM
Received Date: 1/29/2009 10:52:45 AM
From: John Rycyna

Created By: John.Rycyna@nrc.gov

Recipients:
"CCNPP3COL Resource" <CCNPP3COL.Resource@nrc.gov>
Tracking Status: None
"Samantha Crane" <Samantha.Crane@nrc.gov>
Tracking Status: None
"Juan Peralta" <Juan.Peralta@nrc.gov>
Tracking Status: None
"Michael Miernicki" <Michael.Miernicki@nrc.gov>
Tracking Status: None
"Joseph Colaccino" <Joseph.Colaccino@nrc.gov>
Tracking Status: None
"Meena Khanna" <Meena.Khanna@nrc.gov>
Tracking Status: None
"James Biggins" <James.Biggins@nrc.gov>
Tracking Status: None
"Adam Gendelman" <Adam.Gendelman@nrc.gov>
Tracking Status: None
"Poche, Robert" <robert.poche@unistarnuclear.com>
Tracking Status: None
"McQueeney, Jennifer" <Jennifer.McQueeney@unistarnuclear.com>
Tracking Status: None

Post Office: HQCLSTR02.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	769	1/29/2009 10:52:45 AM
RAI No 52 CQVP 1679.doc	26734	

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

Request for Additional Information No. 52
1/29/2009

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

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

14.02-31

In RAI 14.02-04, the NRC staff requested that the applicant revise the applicable test abstracts under Section 14.2.14 to include verification of redundancy and electrical independence of affected SSCs or explain why such verification is not necessary. In response to the staff's RAI, the applicant stated that the US EPR FSAR, Section 14.2.12.12.17, the Integrated Engineered Safety Features/Loss of Power Test, (Test # 153), which is incorporated by reference into the combined license application, includes acceptance criteria that states, "Electrical redundancy, independence, and load group assignments are as designed." This test will ensure the electrical redundancy, independence, and load group assignments of the SSCs covered within the scope of the US EPR and CCNPP Unit 3 site-specific SSCs, including the Ultimate Heat Sink Makeup System (CCNPP Unit 3 FSAR 14.2.14.2), Essential Service Water Blowdown System (CCNPP Unit 3 FSAR 14.2.14.3), Essential Service Water Chemical Treatment System (CCNPP Unit 3 FSAR 14.2.14.4), UHS Makeup Water Intake Structure Ventilation System (CCNPP Unit 3 FSAR 14.2.14.8), and UHS Electrical Building Ventilation System (CCNPP Unit 3 FSAR 14.2.14.9).

However, AREVA's response to the staff's request in RAI 14.02-33 consisted of a different approach. AREVA instead revised the test abstracts in the US EPR FSAR, Chapter 14.2, to include electrical independence and redundancy. Rather than relying solely on Test #153 to verify the electrical independence and redundancy of all the safety-related systems, AREVA revised all of the test abstracts for safety-related systems (test abstracts #001, #003, #004, #012, #014 through #022, #027, #031, #036, #037, #046, #048, #049, #052, #059, #061, #062, #063, #067, #071, #076 through #079, #081 through #086, #088, #100, #104, #105, #106, #110, #112, #115, #116, #117, #121, #126, #130, #140, #141, #142, #145, #146, #147, #138, #148 through #153, and #174). The revisions included a statement in the test objectives, ("Verify electrical independence and redundancy of safety-related power supplies,") a statement in the test methods, ("Verify electrical independence and redundancy of power supplies for safety-related functions,") and a statement in the acceptance criteria, ("Safety-related components meet electrical independence and redundancy requirements.") to indicate that the test must include verification of electrical independence and redundancy.

Consistent with the US EPR FSAR approach, the staff requests that the applicant revise the following FSAR sections to include provisions in the objectives, test methods, and acceptance criteria for the verification of redundancy and electrical independence of affected SSCs: Ultimate Heat Sink Makeup System (CCNPP Unit 3 FSAR 14.2.14.2), Essential Service Water Blowdown System (CCNPP Unit 3 FSAR 14.2.14.3), Essential Service Water Chemical Treatment System (CCNPP Unit 3 FSAR 14.2.14.4), UHS

Makeup Water Intake Structure Ventilation System (CCNPP Unit 3 FSAR 14.2.14.8), and UHS Electrical Building Ventilation System (CCNPP Unit 3 FSAR 14.2.14.9), or to comply with the requirements of 10 CFR Part 52 concerning departures from incorporated standardized designs.