

CCNPP3COLA PEmails

From: Steckel, James
Sent: Wednesday, June 22, 2011 10:45 AM
To: CCNPP3COLA PEmails
Subject: FW: Draft RAI No 52 CQVP 1679.doc (P)
Attachments: Draft RAI No 52 CQVP 1679.doc

From: Rycyna, John
Sent: Thursday, January 15, 2009 4:50 PM
To: Poche, Robert
Cc: CCNPP3COL Resource; Crane, Samantha; Peralta, Juan; Miernicki, Michael; Colaccino, Joseph; Khanna, Meena; Biggins, James; Gendelman, Adam
Subject: Draft RAI No 52 CQVP 1679.doc (P)

Rob,

Attached is DRAFT RAI No. 52. You have until January 29, 2009 to review it and to decide whether you need a conference call to discuss it. After the call or after January 29, 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
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Subject: FW: Draft RAI No 52 CQVP 1679.doc (P)
Sent Date: 6/22/2011 10:44:49 AM
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From: Steckel, James

Created By: James.Steckel@nrc.gov

Recipients:
"CCNPP3COLA PEmails" <CCNPP3COLA.PEmails@nrc.gov>
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Priority: Standard
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Reply Requested: No
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Request for Additional Information No. 52
DRAFT
1/15/2009

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.