

ArevaEPRDCPEm Resource

From: Tesfaye, Getachew
Sent: Tuesday, August 30, 2011 3:38 PM
To: 'usepr@areva.com'
Cc: Scarbrough, Thomas; Terao, David; Jaffe, David; Colaccino, Joseph; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 501 (5934), FSAR Ch. 14
Attachments: RAI_501_CIB1_5934.doc

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on July 21, 2011, and on August 30, 2011, you informed us that the RAI is clear and no further clarification is needed. As a result, no change is made to the draft 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.

Thanks,
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Hearing Identifier: AREVA_EPR_DC_RAIs
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Request for Additional Information No. 501(5934), Revision 0

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U. S. EPR Standard Design Certification
AREVA NP Inc.

Docket No. 52-020

SRP Section: 14.03.03 - Piping Systems and Components - Inspections, Tests, Analyses, and
Acceptance Criteria

Application Section: 14.3.3

QUESTIONS for Component Integrity, Performance, and Testing Branch 1 (AP1000/EPR Projects)
(CIB1)

14.03.03-53

The ITAAC for the environmental qualification (EQ) of U.S. EPR components listed in Tier 1 of the U.S. EPR FSAR do not appear to be consistent with the EQ requirements specified in Tier 2 of the U.S. EPR FSAR. For example, the Commitment Wording for ITAAC 6.1 in Table 2.2.3-3, "Safety Injection System and Residual Heat Removal System ITAAC," in U.S. EPR FSAR Tier 1 states that components in Table 2.2.3-2, that are designated as harsh environment, will perform the function listed in Table 2.2.3-1 in the environments that exist during and following design basis events. To be consistent with the EQ requirements in Section 3.11, "Environmental Qualification of Mechanical and Electrical Equipment," of U.S. EPR FSAR Tier 2, the Commitment Wording for ITAAC 6.1 of Table 2.2.3-3 in U.S. EPR FSAR Tier 1 should be revised to read as follows: "Components in Table 2.2.3-2 that are designated as harsh environment will be capable of performing design safety functions listed in Table 2.2.3-1 under normal environmental conditions, containment test conditions, anticipated operational occurrences, and accident and post-accident environmental conditions." Similarly, item a in the Inspections, Tests, Analyses column of ITAAC 6.1 should be revised to read as follows: "Type tests or type tests and analysis are performed to demonstrate the ability of the components listed as harsh environment in Table 2.2.3-2 to perform the function listed in Table 2.2.3-1 under normal environmental conditions, containment test conditions, anticipated operational occurrences, and accident and post-accident environmental conditions." Further, item a in the Acceptance Criteria column of ITAAC 6.1 should be revised to read as follows: "Environmental Qualification Data Packages (EQDPs) exist and conclude that the components listed as harsh environment in Table 2.2.3-2 can perform the function listed in Table 2.2.3-1 under normal environmental conditions, containment test conditions, anticipated operational occurrences, and accident and post-accident environmental conditions, including the time required to perform the listed function." The EQ ITAAC listed in U.S. EPR FSAR Tier 1 for other U.S. EPR systems should also be revised to be consistent with the EQ requirements in U.S. EPR FSAR Tier 2, Section 3.11, similar to the proposed language for ITAAC 6.1 in U.S. EPR FSAR Tier 1, Table 2.2.3-3.