

ArevaEPRDCPEm Resource

From: Tesfaye, Getachew
Sent: Saturday, December 05, 2009 6:24 AM
To: 'usepr@areva.com'
Cc: Tomon, John; duBouchet, Andy; Peralta, Juan; Marble, Julie; Junge, Michael; Miernicki, Michael; Steckel, James; Colaccino, Joseph; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 330 (3948, 3972), FSAR Ch. 14
Attachments: RAI_330_CQVP_3948_COLP_3972.doc

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on November 18, 2009, and discussed with your staff on December 2, 2009. No changes were made to the draft RAI as a result of that discussion. The schedule we have established for review of your application assumes technically correct and complete responses within 30 days of receipt of RAIs, excluding the time period of **December 25, 2009 thru January 3, 2010, to account for the holiday season** as discussed with AREVA NP Inc. For any RAIs that cannot be answered **within 40 days**, it is expected that a date for receipt of this information will be provided to the staff within the 40-day period so that the staff can assess how this information will impact the published schedule.

Thanks,
Getachew Tesfaye
Sr. Project Manager
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Hearing Identifier: AREVA_EPR_DC_RAIs
Email Number: 1004

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Subject: U.S. EPR Design Certification Application RAI No. 330 (3948, 3972), FSAR Ch. 14
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From: Tesfaye, Getachew

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Options

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Return Notification: No
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Request for Additional Information No. 330 (3948, 3972), Revision 0

12/05/2009

U. S. EPR Standard Design Certification
AREVA NP Inc.
Docket No. 52-020

SRP Section: 14.02 - Initial Plant Test Program - Design Certification and New License Applicants
SRP Section: 14.03.09 - Human Factors Engineering - Inspections, Tests, Analyses, and Acceptance
Criteria

Application Section: FSAR Chapter 14

QUESTIONS for Quality and Vendor Branch 1 (AP1000/EPR Projects) (CQVP)
QUESTIONS for Operating Licensing and Human Performance Branch (AP1000/EPR Projects) (COLP)

14.02-143

The NRC staff requests that the applicant include the integrated test ITAAC from section 3.3.2 and Table 3.3-1 of the U.S. EPR FSAR in the appropriate system based design ITAAC of Tier 1 chapter 2. Additionally, the staff request that the applicant remove section 3.3.2 and Table 3.3-1 of Tier 1 after the inclusion of the integrated test ITAAC into appropriate sections of Tier 1 chapter 2.

14.02-144

The NRC staff requests that the applicant revise U.S. EPR FSAR Section 14.2.12.11.19, "Radiation Monitoring System (Test #143)," as follows:

- a. Revise test method item 3.5 to state: Using radioactive calibration check sources initiate automatic initiation signals and record control actuations.
- b. Table 7.3-1, ESF Actuation Variables, lists three radiation monitors as providing input to the protection system: the containment high range monitors, the MCR air intake duct monitors, and the main steam line activity monitors. However, Test #143 only provides acceptance criteria for the MCR air intake monitors. The staff requests that the applicant revise the acceptance criteria item 5.1 of test abstract #143 to state: "The radiation monitoring system generates high radiation signals for the main steam lines, containment, and MCR air intake ducts as input to the protection system.
- c. The staff requests that the applicant revise the acceptance criteria item 5.2 to include: "The airborne and area radiation monitors function as described in FSAR Sections 7.1.1.5.5, 7.3.1, and 12.3.4 as well as in Section 3.3.1, "Protection System (PS)," of FSAR Section 16, "Technical Specifications." The airborne and area radiation monitors are listed in Table 11.5-1 and Table 12.3-3, respectively."

14.03.09-15

NUREG-0800 Section 14.3.9 (II) states that applicants must submit a description of a minimum inventory of displays, controls, and alarms necessary to accomplish the Generic Technical Guidelines (e.g., EPGs, ERGs) and critical operator actions identified through PRA analysis.

Staff do not have documents supporting Section 14.3.9 on file. NRC staff requests that the minimum inventory materials in support of Section 14.3.9 be submitted. Materials supporting Chapter 14 end with Section 14.3.8.