

ArevaEPRDCPEm Resource

From: Tesfaye, Getachew
Sent: Wednesday, December 08, 2010 8:45 AM
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Subject: Draft - U.S. EPR Design Certification Application RAI No. 464 (5282), FSAR Ch. 14
Attachments: Draft RAI_464_SEB2_5282.doc

Attached please find draft RAI No. 464 regarding your application for standard design certification of the U.S. EPR. If you have any question or need clarifications regarding this RAI, please let me know as soon as possible, I will have our technical Staff available to discuss them with you.

Please also review the RAI to ensure that we have not inadvertently included proprietary information. If there are any proprietary information, please let me know within the next ten days. If I do not hear from you within the next ten days, I will assume there are none and will make the draft RAI publicly available.

Thanks,
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Request for Additional Information No. 464 (5282), Revision 0

12/8/2010

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: 14.03.03

QUESTIONS for Structural Engineering Branch 2 (ESBWR/ABWR Projects) (SEB2)

14.03.03-50

In a markup of the U.S. EPR FSAR which was attached to the response to RAI 370, Question 03.07.03-38, the applicant provided an addition to U.S. EPR FSAR Section 14.3.3 which provides references to ITAAC in Tier 1, Chapter 3 addressing non-system based topics. The addition identified was Section 3.9 addressing seismic subsystem interaction. The staff has reviewed the Tier 1, Section 3.9 write-up against the requirements of 10 CFR 52.47(b)(1) and has the following comments regarding the ITAAC in Table 3.9-1—Seismic Subsystem Interaction ITAAC.

- a. The applicant is requested to revise the Commitment Wording which currently states that a seismic interaction analysis summary exists that concludes that non-Seismic Category I subsystems located within a potential impact zone of a Seismic Category I subsystem will not impair the ability of the Seismic Category I subsystems to perform their intended safety function. The commitment wording should express fundamental safety commitments of the plant design. Thus the commitment wording should not be that an analysis summary exists but that non-Seismic Category I subsystems located within a potential impact zone of a Seismic Category I subsystem will not impair the ability of the Seismic Category I subsystems to perform their intended safety function. The existence of the analysis summary forms part of the Acceptance Criteria which is intended to demonstrate that the commitment wording has been met.
- b. Under Inspections, Test, and Analysis, an item c should be added to confirm that all interactions between Seismic Category I and Non-Seismic Category I SSCs have been identified and necessary prevention features have been installed.
- c. Under Acceptance Criteria, an item c should be added stating that a report exists which confirms that all interactions between Seismic Category I and Non-Seismic Category I SSCs have been identified and necessary prevention features have been installed.