

## ArevaEPRDCPEm Resource

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**From:** Tesfaye, Getachew  
**Sent:** Tuesday, May 11, 2010 3:33 PM  
**To:** 'usepr@areva.com'  
**Cc:** Makar, Gregory; Terao, David; Carneal, Jason; Colaccino, Joseph; ArevaEPRDCPEm Resource  
**Subject:** U.S. EPR Design Certification Application RAI No. 394 (4663), FSAR Ch. 15  
**Attachments:** RAI\_394\_CIB1\_4663.doc

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on April 28, 2010, and discussed with your staff on May 11, 2010. 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. 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,  
Getachew Tesfaye  
Sr. Project Manager  
NRO/DNRL/NARP  
(301) 415-3361

**Hearing Identifier:** AREVA\_EPR\_DC\_RAIs  
**Email Number:** 1407

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**From:** Tesfaye, Getachew

**Created By:** Getachew.Tesfaye@nrc.gov

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Request for Additional Information No. 394(4663), Revision 1

5/11/2010

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

Docket No. 52-020

SRP Section: 15.00.03 - Design Basis Accidents Radiological Consequence Analyses for Advanced  
Light Water Reactors  
Application Section: 15.0

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

15.00.03-37

In an email message dated January 28, 2009 (ML090280312), Areva NP Inc. provided a supplemental response (Supplement 1) to RAI No. 137, Question 15.00.03-33. The response provided tabulated values of the IRWST pH as a function of time over 30 days, as well as the acid quantities on which the pH values are based (Tables 15.00.03-33-1, -2, and -3). The response did not propose any FSAR revisions. The staff determined that the response addressed the technical concerns about the post-LOCA containment sump pH. However, the staff also determined that the tables should be included in U.S. EPR FSAR Section 15.0 to replace and supplement the existing Table 15.0-55 (FSAR Rev. 1). Therefore, please discuss your plans to include in the FSAR the information from Tables 15.00.03-33-1, -2, and -3 of the RAI No. 137 response, and provide the corresponding FSAR proposed revision.

15.00.03-38

In an email message dated January 28, 2009 (ML090280312), Areva NP Inc. provided a supplemental response (Supplement 1) to RAI No. 137, Question 15.00.03-35. The response explains how the applicant will ensure the correct amount of trisodium phosphate (TSP) is stored in containment despite possible variations in purity and density. Please provide a revision to the EPR FSAR (for example, Section 15.0.3.12.3) to explain how the purity and density requirements will be applied to TSP purchase specifications to ensure the volume of stored TSP is adequate to provide the required neutralizing capability.