

ArevaEPRDCPEm Resource

From: Getachew Tesfaye
Sent: Friday, December 19, 2008 12:32 PM
To: 'usepr@areva.com'
Cc: Fred Forsaty; Shanlai Lu; Joseph Donoghue; Prosanta Chowdhury; Jason Carneal; Joseph Colaccino; John Rycyna; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 147 (1653), FSAR Ch. 15
Attachments: RAI_147_SRSB_1653.doc

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on November 20, 2008, and discussed with your staff on December 8 and 18, 2008. No change was made to the draft RAI as a result of those discussions. 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 20, 2008 thru January 1, 2009, to account for the holiday season** as discussed with AREVA NP Inc. For any RAIs that cannot be answered **within 45 days**, it is expected that a date for receipt of this information will be provided to the staff within the 45-day period so that the staff can assess how this information will impact the published schedule.

Thanks,
Getachew Tesfaye
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Request for Additional Information No. 147 (1653), Revision 0

12/19/2008

U. S. EPR Standard Design Certification

AREVA NP Inc.

Docket No. 52-020

SRP Section: 15.06.05 - Loss of Coolant Accidents Resulting From Spectrum of Postulated Piping Breaks Within the Reactor Coolant Pressure Boundary

Application Section: FSAR Ch. 15

QUESTIONS for Reactor System, Nuclear Performance and Code Review (SRSB)

15.06.05-26

- a. The response to FSAR RAI 15.06.05-21 indicates that a finer nodalization of the steam generators (SGs) can increase the limiting case's PCT by 50 degree F, yet it is concluded that a coarser nodalization is adequate. This conclusion is not supported by the analysis. Provide justification for the SG nodalization used for SBLOCA and the non-LOCA analyses.
- b. Refer to FSAR Fig. 15.6-55 in FSAR Section 15.6, and provide an explanation of the break flow increase seen in between 100 and 200 seconds.
- c. Provide explanation on why the PCT versus break size plots presented in ANP-10291 and in response to FSAR RAI 15.06.05-20 do not change smoothly as break size increases, and why there are dips in the curve.