ArevaEPRDCPEm Resource

From: Tesfaye, Getachew
Sent: Wednesday, November 18, 2009 4:41 PM
To: 'usepr@areva.com'
Cc: Budzynski, John; VanWert, Christopher; Donoghue, Joseph; Roy, Tarun; Colaccino, Joseph; ArevaEPRDCPEm Resource
Subject: Draft - U.S. EPR Design Certification Application RAI No. 332 (4047), FSAR Ch. 5 OPEN ITEM
Attachments: Draft RAI_332_SRSB_4047.doc

Attached please find draft RAI No. 332 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,
Getachew Tesfaye
Sr. Project Manager
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Hearing Identifier: AREVA_EPR_DC_RAIs
Email Number: 965

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Request for Additional Information No. 332 (4047), Revision 0

11/18/2009

U. S. EPR Standard Design Certification
AREVA NP Inc.
Docket No. 52-020
SRP Section: 05.02.02 - Overpressure Protection
Application Section: Chapter 5

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

05.02.02-11

OPEN ITEM

In it's response to RAI 5.2.2-3, the applicant indicated that the LTOP transient analysis used RELAP5/MOD2-B&W to model the U.S. EPR nuclear steam supply system (NSSS) using the methodology in BAW-10169P-A, B&W Safety Analysis Methodology for Recirculating Steam Generator Plants (BAW-10169P-A, “B&W Safety Analysis Methodology for Recirculating Steam Generator Plants,” B&W Fuel Company, October 1989.) Provide the reference or other basis demonstrating NRC approval to use the B&W methods for the LTOP transient analysis of the US EPR design?

05.02.02-12

OPEN ITEM

It was noted that the inlet to the PSRVs and PDS valves have water loop seals. EPR DCD Section 3.9.3.2.1 was reviewed and the staff was unable to identify any reference or discussion with respect to an analysis of the dynamic loads developed by the loop seals. The staff evaluated loop seal dynamic loading extensively in NUREG 0737 work performed in the 1980’s and found that the dynamic loads caused by loop seals were very significant. Provide a reference or discussion of the analysis performed that adequately evaluated for the forces created in the loop seals during the discharge of the safety valves.