

ArevaEPRDCPEm Resource

From: Getachew Tesfaye
Sent: Wednesday, January 14, 2009 9:19 AM
To: 'usepr@areva.com'
Cc: Arnold Lee; Jennifer Dixon-Herrity; Michael Miernicki; Joseph Colaccino; ArevaEPRDCPEm Resource
Subject: Draft - U.S. EPR Design Certification Application RAI No. 177 (1936), FSAR Ch. 3
Attachments: Draft RAI_177_EMB2_1936.doc

Attached please find draft RAI No. 177 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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U. S. EPR Standard Design Certification

AREVA NP Inc.

Docket No. 52-020

SRP Section: 03.09.02 - Dynamic Testing and Analysis of Systems Structures and Components

Application Section: 3.9.2

QUESTIONS for Engineering Mechanics Branch 2 (ESBWR/ABWR Projects) (EMB2)

03.09.02-39

EPR FSAR Tier 2, Tables 3A-1 and 3A-2, list the loading combinations for the HVAC ductwork and the HVAC supports, respectively. In RAI 3.9.2-15, the staff requests AREVA to explain why loading and loading combinations for Service Levels B are not required. For Service Level D, explain why it is not required unless a design pressure differential (DPD) load is applicable. Discuss what would be the required loadings and loading combinations to be considered with DPD. The staff also requests AREVA to discuss the methods of combining the dynamic loads (including seismic loads), and the bases of the combinations. By email letter dated September 15, 2008, AREVA stated that the information in the two load combination tables, FSAR Tier 2, Table 3A-1, HVAC Ductwork Load Combinations and Table 3A-2, HVAC Support and Restraint Load Combinations, is similar to the information in Tables SA-4212 and SA-4216 of the ASME AG-1-2003 Code.

AREVA stated that it had formally asked the ASME for a clarification regarding reasons for not requiring load combinations for Level B and not requiring load combinations for Level D unless a design pressure differential (DPD) is applicable. AREVA had also asked the ASME for clarification regarding the combination that would be utilized for Level D if DPD was applicable. The staff requests that AREVA provide a supplemental response when the ASME clarification becomes available.