

ArevaEPRDCPEm Resource

From: Tesfaye, Getachew
Sent: Tuesday, September 22, 2009 4:42 PM
To: 'usepr@areva.com'
Cc: Bernal, Sara; Frye, Timothy; Jennings, Jason; Colaccino, Joseph; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 296 (3710), FSAR Ch. 12
Attachments: RAI_296_CHPB_3710.doc

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on September 22, 2009, and on the same day September 22, 2009, you informed us that the RAI is clear and no further clarification is needed. As a result, no change is made to the draft RAI. The question in this RAI is considered a potential open item for Phases 2 and 3 reviews. As such, the schedule we have established for your application assumes technically correct and complete responses prior to the start of Phase 4 review. If the RAI cannot be answered prior to the start of Phase 4 review, it is expected that a date for receipt of this information will be provided 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
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Created By: Getachew.Tesfaye@nrc.gov

Recipients:

"Bernal, Sara" <Sara.Bernal@nrc.gov>
Tracking Status: None
"Frye, Timothy" <Timothy.Frye@nrc.gov>
Tracking Status: None
"Jennings, Jason" <Jason.Jennings@nrc.gov>
Tracking Status: None
"Colaccino, Joseph" <Joseph.Colaccino@nrc.gov>
Tracking Status: None
"ArevaEPRDCPEm Resource" <ArevaEPRDCPEm.Resource@nrc.gov>
Tracking Status: None
"usepr@areva.com" <usepr@areva.com>
Tracking Status: None

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Request for Additional Information No. 296 (3710), Revision 1

9/22/2009

U. S. EPR Standard Design Certification

AREVA NP Inc.

Docket No. 52-020

SRP Section: 12.03-12.04 - Radiation Protection Design Features

Application Section: 12.3 Radiation Protection Design Features

QUESTIONS for Health Physics Branch (CHPB)

12.03-12.04-19

POTENTIAL OPEN ITEM

RG 1.206, Part C.I.12.3.2, states that the applicant should describe the assumptions, codes and techniques used for all calculations which demonstrate the EPR design's compliance with 10 CFR 20 and 10 CFR 50.34(f)(2)(vii).

The EPR DCD Tier 2, Section 12.3.2.2, "Shielding Calculation Methods," describes the use of Microshield 7, MCNP version 4c, and RANKERN version 15a to determine the operational dose rates due to contained radioactivity sources for the EPR design. The staff has the following request for information related to the codes used and referenced in this section.

Confirm that the above list of codes is a comprehensive listing of all codes used for chapter 12 of the FSAR for assessing operational dose rates due to airborne and contained sources. If not, provide a complete reference list of codes used, including version number. If the code was modified by AREVA from the "as-is" vendor supplied version, or if it is not publicly available through a US vendor, provide information on the QA/QC performed on the code.