

ArevaEPRDCPEm Resource

From: Getachew Tesfaye
Sent: Friday, February 27, 2009 5:19 PM
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Cc: Christopher VanWert; Shanlai Lu; Joseph Donoghue; Peter Hearn; Joseph Colaccino; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 188 (1943), FSAR Ch. 9
Attachments: RAI_188_SRSB_1743.doc

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on February 18, 2009, and on February 26, 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 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,
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Hearing Identifier: AREVA_EPR_DC_RAIs
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Options

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Request for Additional Information No. 188 (1743), Revision 0

02/27/2009

U. S. EPR Standard Design Certification
AREVA NP Inc.
Docket No. 52-020

SRP Section: 09.01.01 - Criticality Safety of Fresh and Spent Fuel Storage and Handling
Application Section: 9.1.1

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

09.01.01-3

Confirmatory criticality analyses are necessary to verify the acceptability of the spent fuel storage racks for the U.S. EPR. To perform these analyses, the minimum areal density for the B-10 isotope in the Metamic material in all regions of the spent fuel storage racks (SFSR) must be known. The supporting technical report does not specify the Metamic mass density and chemical form.

Provide a minimum areal density for the B-10 isotope for the Metamic material for all regions of the SFSR.

09.01.01-4

In order to support confirmatory analyses, provide detailed design or fabrication drawings that fully define all necessary dimensions and tolerances of the spent fuel storage racks, particularly cross-sectional views of both the 8x10 and 10x10 rack designs.

09.01.01-5

Provide sample MCNP decks used in the "Spent and New Fuel Storage Analyses for U.S. EPR" technical report. As a minimum, provide one deck each from the Region I and Region II analyses.