

ArevaEPRDCPEm Resource

From: Tesfaye, Getachew
Sent: Tuesday, June 23, 2009 8:26 PM
To: 'usepr@areva.com'
Cc: Patel, Amrit; Lu, Shanlai; Donoghue, Joseph; Carneal, Jason; Colaccino, Joseph; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 250 (2768), FSAR Ch. 9
Attachments: RAI_250_SRSB_2768.doc

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on May 18, 2009, and on June 23, 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,
Getachew Tesfaye
Sr. Project Manager
NRO/DNRL/NARP
(301) 415-3361

Hearing Identifier: AREVA_EPR_DC_RAIs
Email Number: 606

Mail Envelope Properties (C56E360E9D804F4B95BC673F886381E71FBABE9CF1)

Subject: U.S. EPR Design Certification Application RAI No. 250 (2768), FSAR Ch. 9
Sent Date: 6/23/2009 8:25:46 PM
Received Date: 6/23/2009 8:25:46 PM
From: Tesfaye, Getachew

Created By: Getachew.Tesfaye@nrc.gov

Recipients:

"Patel, Amrit" <Amrit.Patel@nrc.gov>
Tracking Status: None
"Lu, Shanlai" <Shanlai.Lu@nrc.gov>
Tracking Status: None
"Donoghue, Joseph" <Joseph.Donoghue@nrc.gov>
Tracking Status: None
"Carneal, Jason" <Jason.Carneal@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

Post Office: HQCLSTR02.nrc.gov

Files	Size	Date & Time
MESSAGE	788	6/23/2009 8:25:46 PM
RAI_250_SRSB_2768.doc		27642

Options

Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

Request for Additional Information No. 250 (2768), Revision 0

6/23/2009

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: FSAR Ch. 9

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

09.01.01-21

Follow-up RAI to RAI No. 196 Questions.

Unistar Topical Report UN-08-001, "Spent Fuel Analysis" states that k_{eff} is calculated using MCNP4a based on a minimum of 50 skipped cycles before averaging, and also a minimum of 100 active cycles. In Attachment 2 to Holtec Letter 1721002 (Sample MCNP Input Decks for Region 1 and Region 2 Analyses), these minimum parameters are used. Justify the conclusion that these minimum values are appropriate for ensuring accurate k_{eff} estimation. More specifically, demonstrate that the final estimated k_{eff} is unaffected by increasing the number of skipped and active cycles. Include in the response justification for assuming the source has adequately converged before active cycles begin.