

ArevaEPRDCPEm Resource

From: Tesfaye, Getachew
Sent: Friday, July 24, 2009 4:26 PM
To: 'usepr@areva.com'
Cc: Wang, Weijun; Munson, Clifford; Patel, Jay; Colaccino, Joseph; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 261 (3330), FSAR Ch. 2
Attachments: RAI_261_RGS2_3330.doc

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on July 17, 2009, and discussed with your staff on July 23, 2009. No changes were made to the Draft RAI Question as a result of that discussion. As we informed you during our discussion, 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 response prior to the start of Phase 4 review. If you are unable to provide an answer 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
Email Number: 684

Mail Envelope Properties (C56E360E9D804F4B95BC673F886381E71FBC6DA4F0)

Subject: U.S. EPR Design Certification Application RAI No. 261 (3330), FSAR Ch. 2
Sent Date: 7/24/2009 4:26:11 PM
Received Date: 7/24/2009 4:26:13 PM
From: Tesfaye, Getachew

Created By: Getachew.Tesfaye@nrc.gov

Recipients:

"Wang, Weijun" <Weijun.Wang@nrc.gov>
Tracking Status: None
"Munson, Clifford" <Clifford.Munson@nrc.gov>
Tracking Status: None
"Patel, Jay" <Jay.Patel@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	881	7/24/2009 4:26:13 PM
RAI_261_RGS2_3330.doc	28154	

Options

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

Request for Additional Information No. 261 (3330), Revision 0

7/24/2009

U. S. EPR Standard Design Certification

AREVA NP Inc.

Docket No. 52-020

SRP Section: 02.05.04 - Stability of Subsurface Materials and Foundations

Application Section: 2.5.4

QUESTIONS for Geosciences and Geotechnical Engineering Branch 2 (RGS2)

02.05.04-4

POTENTIAL OPEN ITEM

In response to our RAI 35, Question 02.05.04-2, you stated that you recalculated the maximum dynamic bearing pressure under SSE loads “using a nonlinear time history analysis with explicit representation of soil properties, nuclear island foundation mat and superstructure.” We found that although you provided a revised value for dynamic bearing capacity requirement, you did not provide any detail on the determination of the dynamic bearing capacity analysis. Since the dynamic bearing pressure for the foundation basemat is affected by many factors, such as the analysis model used (2D or 3D), the soil properties and loading condition, we need more information regarding your dynamic bearing pressured determination to evaluate the adequacy of the dynamic bearing capacity requirement specified in FSAR Tier 2, Section 2.5.4.10 to ensure the stability of the foundations.