

ArevaEPRDCPEm Resource

From: Tesfaye, Getachew
Sent: Friday, August 28, 2009 11:58 AM
To: 'usepr@areva.com'
Cc: Harvey, Brad; Lauron, Carolyn; Patel, Jay; Colaccino, Joseph; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 288 (3640, 3634, 3649, 3650), FSAR Ch. 2
Attachments: RAI_288_NARP_3640_RSAC_3634_3649_3650.doc

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on August 27, 2009, and on August 28, 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, except corrections to some typographical errors that you identified. The questions in this RAI are considered potential open items 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. For any RAI question that 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,
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Request for Additional Information No. 288 (3640, 3634, 3649, 3650), Revision 1

8/28/2009

U. S. EPR Standard Design Certification

AREVA NP Inc.

Docket No. 52-020

SRP Section: 02 - Site Characteristics and Site Parameters

SRP Section: 02.03.01 - Regional Climatology

SRP Section: 02.03.04 - Short Term Atmospheric Dispersion Estimates for Accident Releases

SRP Section: 02.03.05 - Long-Term Atmospheric Dispersion Estimates for Routine Releases

Application Section: FSAR Ch 2

QUESTIONS for EPR Projects Branch (NARP)

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

02-2

POTENTIAL OPEN ITEM

Follow-up to RAI 274, Question 02-1:

The staff issued RAI 274, Question 02-1 (on 08/21/09) requesting the applicant to revise COL Information Item 2.0-1 in FSAR Tier 2, Table 1.8-2, "U.S. EPR Combined License Information Items," since the COL Information Item 2.0-1 does not distinguish between site parameters and site characteristics as defined in 10 CFR 52.1(a). The staff requests the applicant to disregard the markup provided for COL Information Item 2.0-1 in RAI 274, Question 02-1, instead consider rephrasing COL Information Item 2.0-1 in FSAR Tier 2, Table 1.8-2, as follows:

A COL applicant that references the U.S. EPR design certification will compare **the characteristics of its proposed site-specific data** to the **design site parameters data** in FSAR Tier 2, Table 2.1-1. If the **specific data characteristics of for the site falls** within the assumed **design site parameters data and characteristics** in FSAR Tier 2, Table 2.1-1, then the U.S. EPR standard design is bounding for the site. For site-specific **design parameter data or** characteristics that are outside the bounds of the assumptions presented in FSAR Tier 2, Table 2.1-1, the COL applicant will **confirm demonstrate** that the U.S. EPR design acceptably meets **any additional all regulatory requirements, that may be imposed by given** the more limiting site-specific **design parameter data or** characteristic. In such an instance, the COL applicant will **also demonstrate and** that the **design maintains conformance to the** design commitments and acceptance criteria described in **this the FSAR need not be changed, or will propose new design commitments or acceptance criteria, or both.**

The staff also requests the applicant to disregard the request to rephrase the title of FSAR Tier 2, Section 2.0 to "Site Parameters" (including all other applicable sections where Section 2.0 is mentioned), in RAI 274, Question 02-1. The title for Section 2.0 shall remain as "Site Characteristics" throughout all sections.

02.03.01-16

POTENTIAL OPEN ITEM

The staff has determined that COL Information Item 2.3-1 in FSAR Tier 2, Table 1.8-2 does not distinguish between site parameters and site characteristics as defined in 10 CFR 52.1(a). Further, COL Information Item 2.3-1 does not clearly describe how the actual site characteristics will be compared to the postulated design parameters set forth in the FSAR. Please revise COL Information Item 2.3-1 and FSAR Tier 2, Section 2.3, accordingly.

02.03.04-9

POTENTIAL OPEN ITEM

The staff has determined that the titles of the accident atmospheric dispersion factor (X/Q) site parameters presented in FSAR Tier 1, Table 5.0-1 and FSAR Tier 2, Table 2.1-1 should not specify EAB and LPZ distances. The distances at which X/Q values are to be determined by the COL applicants are a function of each COL applicant's EAB and LPZ configuration. Please revise the FSAR accordingly.

02.03.05-8

POTENTIAL OPEN ITEM

The staff has determined that the title of the maximum annual average X/Q site parameter presented in FSAR Tier 2, Table 2.1-1 should not specify a distance. The distances at which X/Q values are to be determined by the COL applicants are a function of each COL applicant's site configuration. Please revise the FSAR accordingly.