

## ArevaEPRDCPEm Resource

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**From:** BRYAN Martin (EXT) [Martin.Bryan.ext@areva.com]  
**Sent:** Thursday, April 01, 2010 2:01 PM  
**To:** Tesfaye, Getachew  
**Cc:** DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); RYAN Tom (AREVA NP INC)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 288, FSAR Ch. 2, Supplement 1  
**Attachments:** RAI 288 Supplement 1 Response US EPR DC.pdf

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 2 of the 4 questions of RAI No. 288 on February 26, 2010. The attached file, "RAI 288 Supplement 1 Response US EPR DC.pdf" provides technically correct and complete responses to the 2 remaining questions, as committed.

The following table indicates the respective pages in the response document, "RAI 288 Supplement 1 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 288 — 02-2	2	2
RAI 288 — 02-03.01-16	3	3

This concludes the formal AREVA NP response to RAI 288, and there are no questions from this RAI for which AREVA NP has not provided responses.

Sincerely,

Martin (Marty) C. Bryan  
Licensing Advisory Engineer  
AREVA NP Inc.  
Tel: (434) 832-3016  
[Martin.Bryan.ext@areva.com](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (EXT)  
**Sent:** Friday, February 26, 2010 2:51 PM  
**To:** 'Tesfaye, Getachew'  
**Cc:** DELANO Karen V (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); ROMINE Judy (AREVA NP INC); WILLIFORD Dennis C (AREVA NP INC)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 288, FSAR Ch. 2

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 288 Response US EPR DC.pdf" provides technically correct and complete responses to 2 of the 4 questions.

Appended to this file are affected pages of the U.S. EPR Final Safety Analysis Report in redline-strikeout format which support the response to RAI 288 Questions 02.03.04-9 and 02.03.05-8.

The following table indicates the respective pages in the response document, "RAI 288 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 288 — 02-02	2	2
RAI 288 — 02.03.01-16	3	3
RAI 288 — 02.03.04-9	4	4
RAI 288 — 02.03.05-8	5	5

A complete answer is not provided for 2 of the 4 questions. The schedule for a technically correct and complete response to these questions is provided below.

Question #	Response Date
RAI 288 — 02-02	April 2, 2010
RAI 288 — 02.03.01-16	April 2, 2010

Sincerely,

Martin (Marty) C. Bryan  
Licensing Advisory Engineer  
AREVA NP Inc.  
Tel: (434) 832-3016  
[Martin.Bryan.ext@areva.com](mailto:Martin.Bryan.ext@areva.com)

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**From:** Tesfaye, Getachew [mailto:Getachew.Tesfaye@nrc.gov]  
**Sent:** Friday, August 28, 2009 11:58 AM  
**To:** ZZ-DL-A-USEPR-DL  
**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

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,  
Getachew Tesfaye  
Sr. Project Manager  
NRO/DNRL/NARP  
(301) 415-3361

**Hearing Identifier:** AREVA\_EPR\_DC\_RAIs  
**Email Number:** 1280

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**Sent Date:** 4/1/2010 2:01:23 PM  
**Received Date:** 4/1/2010 2:01:27 PM  
**From:** BRYAN Martin (EXT)

**Created By:** Martin.Bryan.ext@areva.com

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Tracking Status: None

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<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	3834	4/1/2010 2:01:27 PM
RAI 288 Supplement 1 Response US EPR DC.pdf		60115

**Options**

**Priority:** Standard

**Return Notification:** No

**Reply Requested:** No

**Sensitivity:** Normal

**Expiration Date:**

**Recipients Received:**

**Response to**

**Request for Additional Information No. 288, Supplement 1, 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)**

**Question 02-2:**

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 to the site parameters in FSAR Tier 2, Table 2.1-1. If the characteristics of the site fall within the assumed site parameters in FSAR Tier 2, Table 2.1-1, then the U.S. EPR standard design is bounding for the site. For site-specific characteristics that are outside the bounds of the assumptions presented in FSAR Tier 2, Table 2.1-1, the COL applicant will demonstrate that the U.S. EPR design acceptably meets all regulatory requirements, given the more limiting site-specific characteristic. In such an instance, the COL applicant will also demonstrate that the design commitments and acceptance criteria described in 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.

**Response to Question 02-2:**

The Response to RAI 274, Supplement 1, Question 02-1 provides a response to this question.

**FSAR Impact:**

The U.S. EPR FSAR will not be changed as a result of this question.

**Question 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.

**Response to Question 02.03.01-16:**

The Response to RAI 274, Supplement 1, Question 02-1 provides a response to this question.

**FSAR Impact:**

The U.S. EPR FSAR will not be changed as a result of this question.