

ArevaEPRDCPEm Resource

From: WELLS Russell (AREVA) [Russell.Wells@areva.com]
Sent: Thursday, March 31, 2011 11:10 AM
To: Tesfaye, Getachew
Cc: GUCWA Len (EXTERNAL AREVA); BENNETT Kathy (AREVA); DELANO Karen (AREVA); ROMINE Judy (AREVA); RYAN Tom (AREVA)
Subject: Response to U.S. EPR Design Certification Application RAI No. 471 (5387, 5426, 5389), FSAR Ch. 6, Supplement 1
Attachments: RAI 471 Supplement 1 Response US EPR DC.pdf

Getachew,

AREVA NP Inc. (AREVA NP) provided a schedule for responding to the 6 questions of RAI 471 on March 17, 2011. The attached file, "RAI 471 Supplement 1 Response US EPR DC.pdf" provides a technically correct and complete response to one question (Question 06.02.02-84).

The following table indicates the respective pages in the response document, "RAI 471 Supplement 1 Response US EPR DC.pdf," that contain AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 471 — 06.02.02-84	2	2

The response schedule for the remaining 5 questions is unchanged and is provided below:

Question #	Response Date
RAI 471 — 06.02.02-85	May 26, 2011
RAI 471 — 06.02.05-20	May 26, 2011
RAI 471 — 06.02.05-21	May 26, 2011
RAI 471 — 06.02.05-22	May 26, 2011
RAI 471 — 06.02.05-23	May 26, 2011

Sincerely,

From: WELLS Russell (RS/NB)
Sent: Thursday, March 17, 2011 6:42 AM
To: Tesfaye, Getachew
Cc: GUCWA Len (External RS/NB); BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 471 (5387, 5426, 5389), FSAR Ch. 6

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 471 Response US EPR DC.pdf" provides a schedule since technically correct and complete responses to the 6 questions are not provided.

The following table indicates the respective pages in the response document, "RAI 471 Response US EPR DC.pdf" that contain AREVA NP's responses to the subject questions.

Question #	Start Page	End Page
RAI 471 — 06.02.02-84	2	2
RAI 471 — 06.02.02-85	3	3
RAI 471 — 06.02.05-20	4	4
RAI 471 — 06.02.05-21	5	5
RAI 471 — 06.02.05-22	6	6
RAI 471 — 06.02.05-23	7	7

A complete answer is not provided for the 6 questions. The schedule for technically correct and complete responses to these questions is provided below.

Question #	Response Date
RAI 471 — 06.02.02-84	March 31, 2011
RAI 471 — 06.02.02-85	May 26, 2011
RAI 471 — 06.02.05-20	May 26, 2011
RAI 471 — 06.02.05-21	May 26, 2011
RAI 471 — 06.02.05-22	May 26, 2011
RAI 471 — 06.02.05-23	May 26, 2011

Sincerely,

Russ Wells

U.S. EPR Design Certification Licensing Manager

AREVA NP, Inc.

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Russell.Wells@Areva.com

From: Tesfaye, Getachew [<mailto:Getachew.Tesfaye@nrc.gov>]

Sent: Tuesday, February 15, 2011 2:04 PM

To: ZZ-DL-A-USEPR-DL

Cc: Makar, Gregory; Terao, David; Jackson, Christopher; Grady, Anne-Marie; McKirgan, John; Carneal, Jason; Colaccino, Joseph; ArevaEPRDCPEm Resource

Subject: U.S. EPR Design Certification Application RAI No. 471 (5387, 5426, 5389), FSAR Ch. 6

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on January 26, 2011, and discussed with your staff on February 15, 2011. No change is made to the draft RAI as a result of that discussion. 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: 2787

Mail Envelope Properties (1F1CC1BBDC66B842A46CAC03D6B1CD41042B986A)

Subject: Response to U.S. EPR Design Certification Application RAI No. 471 (5387, 5426, 5389), FSAR Ch. 6, Supplement 1
Sent Date: 3/31/2011 11:09:58 AM
Received Date: 3/31/2011 11:10:03 AM
From: WELLS Russell (AREVA)

Created By: Russell.Wells@areva.com

Recipients:

"GUCWA Len (EXTERNAL AREVA)" <Len.Gucwa.ext@areva.com>
Tracking Status: None
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Tracking Status: None
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Tracking Status: None
"ROMINE Judy (AREVA)" <Judy.Romine@areva.com>
Tracking Status: None
"RYAN Tom (AREVA)" <Tom.Ryan@areva.com>
Tracking Status: None
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Tracking Status: None

Post Office: AUSLYNCMX02.adom.ad.corp

Files	Size	Date & Time
MESSAGE	3956	3/31/2011 11:10:03 AM
RAI 471 Supplement 1 Response US EPR DC.pdf		59435

Options

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

Response to

**Request for Additional Information No. 471(5387, 5426, 5389), Revision 0,
Supplement 1**

2/15/2011

U. S. EPR Standard Design Certification

AREVA NP Inc.

Docket No. 52-020

SRP Section: 06.02.02 - Containment Heat Removal Systems

SRP Section: 06.02.05 - Combustible Gas Control in Containment

Application Section: 6.2

**QUESTIONS for Containment and Ventilation Branch 1 (AP1000/EPR Projects)
(SPCV)**

Question 06.02.02-84:

In RAI 401, Question 06.02.02-58, the staff asked why the debris generation calculations from Microtherm insulation in ANP-10293, did not assume the highest potential alumina and silica contents (25% and 70%, respectively). AREVA explained in its response that the assumed alumina and silica contents were based on chemical analysis of the Microtherm used in the U.S. EPR autoclave testing. Although the Microtherm insulation used in the testing contained these lower percentages of alumina and silica, these lower values do not bound the maximum percentages permitted by the Microtherm specification for debris generation. Discuss plans to revise the debris generation calculations and ANP-10293 by assuming Microtherm contains the highest allowable alumina and silica contents.

Response to Question 06.02.02-84:

The debris generation calculations were revised with the assumption that the Microtherm insulation contained the highest potential alumina and silica contents (25 percent and 70 percent, respectively) permitted by the Microtherm specification (i.e., Microtherm FreeFlow Material Safety Data Sheet). The revised results are presented in Appendix D of ANP-10293, U.S. EPR Design Features to Address GSI-191 Technical Report, Revision 3. The specific sections of interest for the revised results are D.3.3.1, D.3.3.3, D.3.3.4, D.3.3.5, D.3.5, D.3.6, and D.3.8.

FSAR Impact:

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