

ArevaEPRDCPEm Resource

From: WILLIFORD Dennis (AREVA) [Dennis.Williford@areva.com]
Sent: Thursday, October 13, 2011 5:48 PM
To: Tesfaye, Getachew
Cc: BENNETT Kathy (AREVA); DELANO Karen (AREVA); ROMINE Judy (AREVA); RYAN Tom (AREVA); GUCWA Len (EXTERNAL AREVA)
Subject: Response to U.S. EPR Design Certification Application RAI No. 479 (5568_5610_5612), FSAR Ch. 6, Supplement 5
Attachments: RAI 479 Supplement 5 Response US EPR DC.pdf

Getachew,

AREVA NP Inc. (AREVA NP) provided a schedule for a technically correct and complete response to the three questions in RAI 479 on April 7, 2011. Supplement 1 and Supplement 2 responses to RAI 479 were sent on June 14, 2011, and July 27, 2011, respectively, to revise the response schedule for the three questions. Supplement 3 response to RAI 479 was sent on August 31, 2011 to provide technically correct and complete responses to 2 of the 3 questions. Supplement 4 response to RAI 479 was sent on September 28, 2011 to revise the response schedule for Question 06.02.04-11.

The attached file, "RAI 479 Supplement 5 Response US EPR DC.pdf" provides a technically correct and complete response to the remaining question.

The following table indicates the respective pages in the response document, "RAI 479 Supplement 5 Response US EPR DC.pdf," that contain AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 479 — 06.02.04-11	2	2

This concludes the formal AREVA NP response to RAI 479, and there are no questions from this RAI for which AREVA NP has not provided responses.

Sincerely,

Dennis Williford, P.E.
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.

7207 IBM Drive, Mail Code CLT 2B

Charlotte, NC 28262

Phone: 704-805-2223

Email: Dennis.Williford@areva.com

From: WILLIFORD Dennis (RS/NB)
Sent: Wednesday, September 28, 2011 4:36 PM
To: Getachew.Tesfaye@nrc.gov
Cc: BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB); GUCWA Len (External RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 479 (5568_5610_5612), FSAR Ch. 6, Supplement 4

Getachew,

AREVA NP Inc. (AREVA NP) provided a schedule for a technically correct and complete response to the three questions in RAI 479 on April 7, 2011. Supplement 1 and Supplement 2 responses to RAI 479 were sent on June 14, 2011, and July 27, 2011, respectively, to revise the response schedule for the three questions. Supplement 3 response to RAI 479 was sent on August 31, 2011 to provide technically correct and complete responses to 2 of the 3 questions.

The schedule for a technically correct and complete response to the remaining question has been changed as provided below.

Question #	Response Date
RAI 479 — 06.02.04-11	October 26, 2011

Sincerely,

Dennis Williford, P.E.
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.

7207 IBM Drive, Mail Code CLT 2B
Charlotte, NC 28262
Phone: 704-805-2223
Email: Dennis.Williford@areva.com

From: WILLIFORD Dennis (RS/NB)
Sent: Wednesday, August 31, 2011 9:43 AM
To: Getachew.Tesfaye@nrc.gov
Cc: BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB); GUCWA Len (External RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 479 (5568_5610_5612), FSAR Ch. 6, Supplement 3

Getachew,

AREVA NP Inc. (AREVA NP) provided a schedule for a technically correct and complete response to the three questions in RAI 479 on April 7, 2011. Supplement 1 and Supplement 2 responses to RAI 479 were sent on June 14, 2011, and July 27, 2011, respectively, to revise the response schedule for the three questions.

The attached file, "RAI 479 Supplement 3 Response US EPR DC.pdf" provides technically correct and complete responses to 2 of the remaining 3 questions. Appended to this file are affected pages of the U.S. EPR Final Safety Analysis Report in redline-strikeout format which support the responses to RAI 479 Question 06.02.01-102 and Question 06.02.04-12. Please note that a portion of the U.S. EPR FSAR changes associated with these responses were included as part of Revision 3 to the U.S. EPR FSAR. These changes are not denoted by "redline-strikeout" on the enclosed markup of U.S. EPR FSAR Interim Revision 4.

The following table indicates the respective pages in the response document, "RAI 479 Supplement 3 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
------------	------------	----------

RAI 479 — 06.02.01-102	2	3
RAI 479 — 06.02.04-12	4	4

The schedule for a technically correct and complete response to the remaining question is unchanged and provided below.

Question #	Response Date
RAI 479 — 06.02.04-11	September 28, 2011

Sincerely,

Dennis Williford, P.E.
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.

7207 IBM Drive, Mail Code CLT 2B
Charlotte, NC 28262
Phone: 704-805-2223
Email: Dennis.Williford@areva.com

From: WELLS Russell (RS/NB)
Sent: Wednesday, July 27, 2011 7:30 PM
To: 'Tesfaye, Getachew'
Cc: ROMINE Judy (RS/NB); WILLIFORD Dennis (RS/NB); BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); RYAN Tom (RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 479 (5568_5610_5612), FSAR Ch. 6, Supplement 2

Getachew,

AREVA NP Inc. (AREVA NP) provided a schedule for a technically correct and complete response to the three questions in RAI 479 on April 7, 2011. Supplement 1 response to RAI 479 was sent on June 14, 2011 to revise the response schedule for the three questions.

The schedule has been has been changed as provided below:

Question #	Response Date
RAI 479 — 06.02.01-102	August 31, 2011
RAI 479 — 06.02.04-11	September 28, 2011
RAI 479 — 06.02.04-12	August 31, 2011

Sincerely,

Russ Wells for
Dennis Williford, P.E.
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.

7207 IBM Drive, Mail Code CLT 2B
Charlotte, NC 28262

Phone: 704-805-2223

Email: Dennis.Williford@areva.com

From: RYAN Tom (RS/NB)

Sent: Tuesday, June 14, 2011 11:28 AM

To: 'Tesfaye, Getachew'

Cc: GUCWA Len (External RS/NB); BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); ROMINE Judy (RS/NB); WILLIFORD Dennis (RS/NB)

Subject: Response to U.S. EPR Design Certification Application RAI No. 479 (5568_5610_5612), FSAR Ch. 6, Supplement 1

Getachew,

AREVA NP Inc. (AREVA NP) provided a schedule for a technically correct and complete response to the three questions in RAI 479 on April 7, 2011.

The schedule has been has been changed as provided below:

Question #	Response Date
RAI 479 — 06.02.01-102	July 27, 2011
RAI 479 — 06.02.04-11	July 27, 2011
RAI 479 — 06.02.04-12	July 27, 2011

Sincerely,

Tom Ryan for

Dennis Williford, P.E.

U.S. EPR Design Certification Licensing Manager

AREVA NP Inc.

7207 IBM Drive, Mail Code CLT 2B

Charlotte, NC 28262

Phone: 704-805-2223

Email: Dennis.Williford@areva.com

From: WELLS Russell (RS/NB)

Sent: Thursday, April 07, 2011 9:23 AM

To: Tesfaye, Getachew

Cc: GUCWA Len (External RS/NB); Miernicki, Michael; 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. 479 (5568_5610_5612), FSAR Ch. 6

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 479 Response US EPR DC.pdf" provides a schedule since technically correct and complete responses to the 3 questions are not provided.

The following table indicates the respective pages in the response document, "RAI 479 Response US EPR DC.pdf," that contain AREVA NP's responses to the subject questions.

Question #	Start Page	End Page
RAI 479 — 06.02.01-102	2	2
RAI 479 — 06.02.04-11	3	3
RAI 479 — 06.02.04-12	4	4

A complete answer is not provided for 3 of the 3 questions. The schedule for technically correct and complete responses to these questions is provided below.

Question #	Response Date
RAI 479 — 06.02.01-102	June 15, 2011
RAI 479 — 06.02.04-11	June 15, 2011
RAI 479 — 06.02.04-12	June 15, 2011

Sincerely,

Russ Wells

U.S. EPR Design Certification Licensing Manager

AREVA NP, Inc.

3315 Old Forest Road, P.O. Box 10935

Mail Stop OF-57

Lynchburg, VA 24506-0935

Phone: 434-832-3884 (work)

434-942-6375 (cell)

Fax: 434-382-3884

Russell.Wells@Areva.com

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

Sent: Monday, March 07, 2011 8:29 PM

To: ZZ-DL-A-USEPR-DL

Cc: Jensen, Walton; Grady, Anne-Marie; Jackson, Christopher; McKirgan, John; Carneal, Jason; Colaccino, Joseph; ArevaEPRDCPEm Resource

Subject: U.S. EPR Design Certification Application RAI No. 479 (5568_5610_5612), FSAR Ch. 6

Attached please find the subject request for additional information (RAI). A draft of the RAI was provided to you on March 4, 2011, and on March 7, 2011, 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: 3474

Mail Envelope Properties (2FBE1051AEB2E748A0F98DF9EEE5A5D493785B)

Subject: Response to U.S. EPR Design Certification Application RAI No. 479
(5568_5610_5612), FSAR Ch. 6, Supplement 5
Sent Date: 10/13/2011 5:48:10 PM
Received Date: 10/13/2011 5:48:49 PM
From: WILLIFORD Dennis (AREVA)

Created By: Dennis.Williford@areva.com

Recipients:

"BENNETT Kathy (AREVA)" <Kathy.Bennett@areva.com>
Tracking Status: None
"DELANO Karen (AREVA)" <Karen.Delano@areva.com>
Tracking Status: None
"ROMINE Judy (AREVA)" <Judy.Romine@areva.com>
Tracking Status: None
"RYAN Tom (AREVA)" <Tom.Ryan@areva.com>
Tracking Status: None
"GUCWA Len (EXTERNAL AREVA)" <Len.Gucwa.ext@areva.com>
Tracking Status: None
"Tsfaye, Getachew" <Getachew.Tsfaye@nrc.gov>
Tracking Status: None

Post Office: auscharm02.adom.ad.corp

Files	Size	Date & Time
MESSAGE	10068	10/13/2011 5:48:49 PM
RAI 479 Supplement 5 Response US EPR DC.pdf		57696

Options

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

Response to

Request for Additional Information No. 479, Supplement 5

3/07/2011

U. S. EPR Standard Design Certification

AREVA NP Inc.

Docket No. 52-020

SRP Section: 06.02.01 - Containment Functional Design

SRP Section: 06.02.04 - Containment Isolation System

Application Section: 06.02

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

Question 06.02.04-11:**OPEN ITEM**

GDC 55, GDC 56, and GDC 57 require that isolation valves outside containment be located as close to the containment as practical. FSAR Tier 2, Section 6.2.4 indicates that these CIVs will be located as close to the containment as practical. However, the distances from the outside containment CIVs are not included in FSAR Tier 2 Table 6.2.4-1. There are no FSAR Tier 1 requirements in any of the appropriate Sections 2.2, 2.6 and 3.5 requiring that outboard CIVs will be located as close to the containment wall as practical. No COL information items (FSAR Tier 2, Table 1.8-2) have been identified associated with locating the subject valves as close as practical to the containment wall or defining maximum allowable distances. No ITAAC for any of the appropriate Sections 2.2, 2.3, and 3.5 have been identified to confirm that the outboard CIVs are located as close to the containment wall as practical. Provide the distances in FSAR Tier 2, Table 6.2.4-1 which will demonstrate compliance with GDCs 55, 56, and 57. In FSAR, Tier 1, Section 2.2, 2.3 and 3.5 provide a reference to FSAR Tier 2, Table 6.2.4-1, so that these maximum distances will be verified.

Response to Question 06.02.04-11:

The actual distances from the outside containment isolation valves (CIV) to the containment wall will be determined as part of detailed design engineering and therefore are not included in design certification documentation (i.e., the U.S. EPR FSAR). U.S. EPR FSAR Tier 1, Section 3.5 and Table 3.5-3 provide an ITAAC (3.17) requiring that the CIVs listed in U.S. EPR FSAR Tier 2 Table 3.5-1 are located as close to the containment penetrations as practical.

U.S. EPR FSAR, Tier 2, Section 3.1.5 and Section 6.2.4 contain requirements that CIVs located outside containment comply with GDC 55, 56 and 57 and be located as close to the containment as practical. It is not necessary to repeat these requirements in U.S. EPR FSAR, Tier 2, Sections 2.2 and 2.6, which are for Nuclear Island Systems and HVAC Systems.

FSAR Impact:

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