

## ArevaEPRDCPEm Resource

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**From:** WELLS Russell (AREVA) [Russell.Wells@areva.com]  
**Sent:** Wednesday, April 13, 2011 5:09 PM  
**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. 221, FSAR Ch 6, Supplement 14

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 32 questions of RAI 221 on June 17, 2009. Supplement 1 response to RAI 221 was sent on July 31, 2009 to address 4 of the remaining 29 questions. Supplement 2 response to RAI 221 was sent on August 27, 2009 to address 8 of the remaining 25 questions. Supplement 3 response to RAI 221 was sent on September 30, 2009 to address 3 of the remaining 17 questions. Supplement 4 response to RAI 221 was sent on December 18, 2009 to address 10 of the remaining 14 questions. AREVA NP submitted Supplement 5 response to RAI 221 on February 25, 2010, to address 1 of the remaining 4 questions. AREVA NP submitted Supplement 6 and Supplement 7 on May 25, 2010 and July 7, 2010, respectively, to provide revised response schedules. AREVA NP submitted Supplement 8 response to RAI 221 on July 20, 2010 to address 2 of the 3 remaining questions. AREVA NP submitted Supplements 9, 10 and 11 on August 16, 2010, October 6, 2010 and November 2, 2010, respectively, to provide a revised response schedule for Question 06.02.01-24. Supplement 12 response to RAI 221 was submitted on November 23, 2010 to provide a revised response schedule for Question 06.02.01-24. Supplement 13 response to RAI 221 was submitted on March 16, 2011 to provide a revised response to Question 06.02.01-16 and Question 06.02.01-24.

To provide an opportunity to interact with the NRC staff on the responses to Question 06.02.01-16 and Question 06.02.01-24, the schedule for technically correct and complete responses is changed and is also provided below.

Question #	Response Date
RAI 221 — 06.02.01-16	May 18, 2011
RAI 221 — 06.02.01-24	May 18, 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](mailto:Russell.Wells@Areva.com)*

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**From:** WELLS Russell (RS/NB)  
**Sent:** Wednesday, March 16, 2011 4:00 PM

**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. 221, FSAR Ch 6, Supplement 13

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 32 questions of RAI 221 on June 17, 2009. Supplement 1 response to RAI 221 was sent on July 31, 2009 to address 4 of the remaining 29 questions. Supplement 2 response to RAI 221 was sent on August 27, 2009 to address 8 of the remaining 25 questions. Supplement 3 response to RAI 221 was sent on September 30, 2009 to address 3 of the remaining 17 questions. Supplement 4 response to RAI 221 was sent on December 18, 2009 to address 10 of the remaining 14 questions. AREVA NP submitted Supplement 5 response to RAI 221 on February 25, 2010, to address 1 of the remaining 4 questions. AREVA NP submitted Supplement 6 and Supplement 7 on May 25, 2010 and July 7, 2010, respectively, to provide revised response schedules. AREVA NP submitted Supplement 8 response to RAI 221 on July 20, 2010 to address 2 of the 3 remaining questions. AREVA NP submitted Supplements 9, 10 and 11 on August 16, 2010, October 6, 2010 and November 2, 2010, respectively, to provide a revised response schedule for Question 06.02.01-24. Supplement 12 response to RAI 221 was submitted on November 23, 2010 to provide a revised response schedule for Question 06.02.01-24.

As discussed during a recent audit, the response to Question 06.02.01-16 is being changed and a schedule for providing a revised response is provided below. In addition, to provide an opportunity to interact with the NRC staff on the response to Question 06.02.01-24, the schedule for a technically correct and complete response to that question is changed and is also provided below.

Question #	Response Date
RAI 221 — 06.02.01-16	April 14, 2011
RAI 221 — 06.02.01-24	April 14, 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\*](mailto:Russell.Wells@Areva.com)

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**From:** BRYAN Martin (External RS/NB)

**Sent:** Tuesday, November 23, 2010 12:13 PM

**To:** Tesfaye, Getachew

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

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 221, FSAR Ch 6, Supplement 12

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 32 questions of RAI 221 on June 17, 2009. Supplement 1 response to RAI 221 was sent on July 31, 2009 to address 4 of the remaining 29 questions.

Supplement 2 response to RAI 221 was sent on August 27, 2009 to address 8 of the remaining 25 questions. Supplement 3 response to RAI 221 was sent on September 30, 2009 to address 3 of the remaining 17 questions. Supplement 4 response to RAI 221 was sent on December 18, 2009 to address 10 of the remaining 14 questions. AREVA NP submitted Supplement 5 response to RAI 221 on February 25, 2010, to address 1 of the remaining 4 questions. AREVA NP submitted Supplement 6 and Supplement 7 on May 25, 2010 and July 7, 2010, respectively, to provide revised response schedules. AREVA NP submitted Supplement 8 response to RAI 221 on July 20, 2010 to address 2 of the 3 remaining questions. AREVA NP submitted Supplements 9, 10 and 11 on August 16, 2010, October 6, 2010 and November 2, 2010, respectively, to provide a revised response schedule for Question 06.02.01-24.

To provide an opportunity to interact with the NRC staff on the response, the schedule for a technically correct and complete response to the remaining RAI 221 question is changed and is provided below.

Question #	Response Date
RAI 221 — 06.02.01-24	March 16, 2011

Sincerely,

Martin (Marty) C. Bryan  
 U.S. EPR Design Certification Licensing Manager  
 AREVA NP Inc.  
 Tel: (434) 832-3016  
 702 561-3528 cell  
[Martin.Bryan.ext@areva.com](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (External RS/NB)  
**Sent:** Tuesday, November 02, 2010 10:13 AM  
**To:** 'Tsfaye, Getachew'  
**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); GUCWA Len (External RS/NB)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 221, FSAR Ch 6, Supplement 11

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 32 questions of RAI 221 on June 17, 2009. Supplement 1 response to RAI 221 was sent on July 31, 2009 to address 4 of the remaining 29 questions. Supplement 2 response to RAI 221 was sent on August 27, 2009 to address 8 of the remaining 25 questions. Supplement 3 response to RAI 221 was sent on September 30, 2009 to address 3 of the remaining 17 questions. Supplement 4 response to RAI 221 was sent on December 18, 2009 to address 10 of the remaining 14 questions. AREVA NP submitted Supplement 5 response to RAI 221 on February 25, 2010, to address 1 of the remaining 4 questions. AREVA NP submitted Supplement 6 and Supplement 7 on May 25, 2010 and July 7, 2010, respectively, to provide revised response schedules. AREVA NP submitted Supplement 8 response to RAI 221 on July 20, 2010 to address 2 of the 3 remaining questions. AREVA NP submitted Supplement 9 on August 16, 2010 and Supplement 10 on October 6, 2010 to provide a revised response schedule for Question 06.02.01-24.

To provide an opportunity to interact with the NRC staff on the response, the schedule for a technically correct and complete response to the remaining RAI 221 question is changed and is provided below.

Question #	Response Date
RAI 221 — 06.02.01-24	January 7, 2011

Sincerely,

Martin (Marty) C. Bryan  
U.S. EPR Design Certification Licensing Manager  
AREVA NP Inc.  
Tel: (434) 832-3016  
702 561-3528 cell  
[Martin.Bryan.ext@areva.com](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (External RS/NB)  
**Sent:** Wednesday, October 06, 2010 8:45 AM  
**To:** 'Tesfaye, Getachew'  
**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); GUCWA Len (External RS/NB)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 221, FSAR Ch 6, Supplement 10

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 32 questions of RAI 221 on June 17, 2009. Supplement 1 response to RAI 221 was sent on July 31, 2009 to address 4 of the remaining 29 questions. Supplement 2 response to RAI 221 was sent on August 27, 2009 to address 8 of the remaining 25 questions. Supplement 3 response to RAI 221 was sent on September 30, 2009 to address 3 of the remaining 17 questions. Supplement 4 response to RAI 221 was sent on December 18, 2009 to address 10 of the remaining 14 questions. AREVA NP submitted Supplement 5 response to RAI 221 on February 25, 2010, to address 1 of the remaining 4 questions. AREVA NP submitted Supplement 6 and Supplement 7 on May 25, 2010 and July 7, 2010, respectively, to provide revised response schedules. AREVA NP submitted Supplement 8 response to RAI 221 on July 20, 2010 to address 2 of the 3 remaining questions. AREVA NP submitted Supplement 9 on August 16, 2010 to provide a revised response schedule for Question 06.02.01-24.

To provide an opportunity to interact with the NRC staff on the response, the schedule for a technically correct and complete response to the remaining RAI 221 question is changed and is provided below.

Question #	Response Date
RAI 221 — 06.02.01-24	November 3, 2010

Sincerely,

Martin (Marty) C. Bryan  
U.S. EPR Design Certification Licensing Manager  
AREVA NP Inc.  
Tel: (434) 832-3016  
702 561-3528 cell  
[Martin.Bryan.ext@areva.com](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (External RS/NB)  
**Sent:** Monday, August 16, 2010 2:47 PM  
**To:** 'Tesfaye, Getachew'  
**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); GUCWA Len (External RS/NB)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 221, FSAR Ch 6, Supplement 9

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 32 questions of RAI No. 221 on June 17, 2009. Supplement 1 response to RAI No. 221 was sent on July 31, 2009 to address 4 of the remaining 29 questions. Supplement 2 response to RAI No. 221 was sent on August 27, 2009 to address 8 of the remaining 25 questions. Supplement 3 response to RAI No. 221 was sent on September 30, 2009 to address 3 of the remaining 17 questions. Supplement 4 response to RAI No. 221 was sent on December 18, 2009 to address 10 of the remaining 14 questions. AREVA NP submitted Supplement 5 to the response on February 25, 2010, to address 1 of the remaining 4 questions. AREVA NP submitted Supplement 6 on May 25, 2010, to provide a revised response schedule. To provide an opportunity to interact with the NRC staff on the response, on July 7, 2010, AREVA NP provided a revised response date for Questions 06.02.01-22 and 06.02.01-23. On July 20, 2010, AREVA NP provided a technically correct and complete response to these 2 questions.

The schedule for a technically correct and complete response to the remaining RAI 221 question is changed and is provided below.

Question #	Response Date
RAI 221 — 06.02.01-24	October 07, 2010

Sincerely,

Martin (Marty) C. Bryan  
 U.S. EPR Design Certification Licensing Manager  
 AREVA NP Inc.  
 Tel: (434) 832-3016  
 702 561-3528 cell  
[Martin.Bryan.ext@areva.com](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (EXT)  
**Sent:** Tuesday, July 20, 2010 3:51 PM  
**To:** 'Tesfaye, Getachew'  
**Cc:** DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); GUCWA Len T (EXT)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 221, FSAR Ch 6, Supplement 8

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 32 questions of RAI No. 221 on June 17, 2009. Supplement 1 response to RAI No. 221 was sent on July 31, 2009 to address 4 of the remaining 29 questions. Supplement 2 response to RAI No. 221 was sent on August 27, 2009 to address 8 of the remaining 25 questions. Supplement 3 response to RAI No. 221 was sent on September 30, 2009 to address 3 of the remaining 17 questions. Supplement 4 response to RAI No. 221 was sent on December 18, 2009 to address 10 of the remaining 14 questions. AREVA NP submitted Supplement 5 to the response on February 25, 2010, to address 1 of the remaining 4 questions. AREVA NP submitted Supplement 6 on May 25, 2010, to provide a revised response schedule. To provide an opportunity to interact with the NRC staff on the response, on July 7, 2010, AREVA NP provided a revised response date for Questions 06.02.01-22 and 06.02.01-23.

The attached file, "RAI 221 Supplement 8 Response US EPR DC.pdf," provides a technically correct and complete response to 2 of the 3 remaining questions. The following table indicates the respective pages in the response document "RAI 221 Supplement 8 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 221 — 06.02.01-22	2	2
RAI 221 — 06.02.01-23	3	4

The schedule for a technically correct and complete response to the remaining RAI 221 question is unchanged and is provided below.

Question #	Response Date
RAI 221 — 06.02.01-24	August 18, 2010

Sincerely,

Martin (Marty) C. Bryan  
U.S. EPR Design Certification Licensing Manager  
AREVA NP Inc.  
Tel: (434) 832-3016  
702 561-3528 cell  
[Martin.Bryan.ext@areva.com](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (EXT)  
**Sent:** Wednesday, July 07, 2010 5:37 PM  
**To:** 'Tesfaye, Getachew'  
**Cc:** DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); GUCWA Len T (EXT)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 221, FSAR Ch 6, Supplement 7

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 32 questions of RAI No. 221 on June 17, 2009. Supplement 1 response to RAI No. 221 was sent on July 31, 2009 to address 4 of the remaining 29 questions. Supplement 2 response to RAI No. 221 was sent on August 27, 2009 to address 8 of the remaining 25 questions. Supplement 3 response to RAI No. 221 was sent on September 30, 2009 to address 3 of the remaining 17 questions. Supplement 4 response to RAI No. 221 was sent on December 18, 2009 to address 10 of the remaining 14 questions. AREVA NP submitted Supplement 5 to the response on February 25, 2010 and supplement 6 on May 25, 2010 to provide a revised response schedule. To provide an opportunity to interact with the NRC on the response, a revised date is provided below for questions 06.02.01-22 and 23.

Question #	Response Date
RAI 221 — 06.02.01-22	August 11, 2010
RAI 221 — 06.02.01-23	August 11, 2010
RAI 221 — 06.02.01-24	August 18, 2010

Sincerely,

Martin (Marty) C. Bryan  
U.S. EPR Design Certification Licensing Manager  
AREVA NP Inc.  
Tel: (434) 832-3016  
702 561-3528 cell  
[Martin.Bryan.ext@areva.com](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (EXT)  
**Sent:** Tuesday, May 25, 2010 3:36 PM  
**To:** 'Tesfaye, Getachew'  
**Cc:** DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); GUCWA Len T (EXT)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 221, FSAR Ch 6, Supplement 6

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 32 questions of RAI No. 221 on June 17, 2009. Supplement 1 response to RAI No. 221 was sent on July 31, 2009 to address 4 of the remaining 29 questions. Supplement 2 response to RAI No. 221 was sent on August 27, 2009 to address 8 of the remaining 25 questions. Supplement 3 response to RAI No. 221 was sent on September 30, 2009 to address 3 of the remaining 17 questions. Supplement 4 response to RAI No. 221 was sent on December 18, 2009 to address 10 of the remaining 14 questions. AREVA NP submitted Supplement 5 to the response on February 25, 2010 to provide a revised response schedule.

The responses to the 3 remaining RAI 221 questions are primarily dependent upon ongoing containment pressure analyses and component evaluations. Because of these ongoing activities, AREVA NP is not providing a response to the 3 remaining questions at this time. The revised schedule for technically correct and complete responses is provided below. The bases for the schedule change were discussed with NRC staff during a telecon held on May 24, 2010.

Question #	Response Date
RAI 221 — 06.02.01-22	July 7, 2010
RAI 221 — 06.02.01-23	July 7, 2010
RAI 221 — 06.02.01-24	August 18, 2010

Sincerely,

Martin (Marty) C. Bryan  
U.S. EPR Design Certification Licensing Manager  
AREVA NP Inc.  
Tel: (434) 832-3016  
702 561-3528 cell  
[Martin.Bryan.ext@areva.com](mailto:Martin.Bryan.ext@areva.com)

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**From:** DUNCAN Leslie E (AREVA NP INC)  
**Sent:** Thursday, February 25, 2010 10:36 AM  
**To:** 'Tesfaye, Getachew'  
**Cc:** DELANO Karen V (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); ROMINE Judy (AREVA NP INC); BRYAN Martin (EXT); GUCWA Len T (EXT)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 221, FSAR Ch 6, Supplement 5

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 32 questions of RAI No. 221 on June 17, 2009. Supplement 1 response to RAI No. 221 was sent on July 31, 2009 to address 4 of the remaining 29 questions. Supplement 2 response to RAI No. 221 was sent on August 27, 2009 to address 8 of the remaining 25



questions. Supplement 3 response to RAI No. 221 was sent on September 30, 2009 to address 3 of the remaining 17 questions. Supplement 4 response to RAI No. 221 was sent on December 18, 2009 to address 10 of the remaining 14 questions. The attached file, "RAI 221 Supplement 5 Response US EPR DC.pdf," provides a technically correct and complete response to 1 of the 4 remaining questions, as committed.

The following table indicates the respective pages in the response document, "RAI 221 Supplement 5 Response US EPR DC.pdf," that contain AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 221 — 06.02.01-35	2	5

The schedule for technically correct and complete responses to the remaining RAI No. 221 questions is unchanged and is provided below:

Question #	Response Date
RAI 221 — 06.02.01-22	May 28, 2010
RAI 221 — 06.02.01-23	May 28, 2010
RAI 221 — 06.02.01-24	May 28, 2010

Sincerely,

Les Duncan  
 Licensing Engineer  
**AREVA NP Inc.**  
 An AREVA and Siemens Company  
 Tel: (434) 832-2849  
[Leslie.Duncan@areva.com](mailto:Leslie.Duncan@areva.com)

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**From:** Pederson Ronda M (AREVA NP INC)  
**Sent:** Friday, December 18, 2009 11:41 AM  
**To:** 'Tsfaye, Getachew'  
**Cc:** BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); BEELMAN Ronald J (AREVA NP INC)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 221, FSAR Ch 6, Supplement 4

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 32 questions of RAI No. 221 on June 17, 2009. Supplement 1 response to RAI No. 221 was sent on July 31, 2009 to address 4 of the remaining 29 questions. Supplement 2 response to RAI No. 221 was sent on August 27, 2009 to address 8 of the remaining 25 questions. Supplement 3 response to RAI No. 221 was sent on September 30, 2009 to address 3 of the remaining 17 questions. The attached file, "RAI 221 Supplement 4 Response US EPR DC\_PUBLIC.pdf," provides technically correct and complete responses to 10 of the 14 remaining questions.

Since the response contains **security-related sensitive information** that should be withheld from public disclosure in accordance with 10 CFR 2.390, the attached file is a public version with the security-related sensitive information redacted. This email does not contain any security-related information. The unredacted SUNSI version is provided under separate email.

The following table indicates the respective pages in the response document, "RAI 221 Supplement 4 Response US EPR DC\_PUBLIC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 221 — 06.02.01-15	2	6



RAI 221 — 06.02.01-21	7	15
RAI 221 — 06.02.01-26	16	20
RAI 221 — 06.02.01-28	21	23
RAI 221 — 06.02.01-30	24	31
RAI 221 — 06.02.01-32	32	32
RAI 221 — 06.02.01-33	33	34
RAI 221 — 06.02.01-34	35	38
RAI 221 — 06.02.01-42	39	40
RAI 221 — 06.02.01-44	41	41

A response to four questions cannot be provided at this time. The schedule for technically correct and complete responses to the remaining RAI No. 221 questions has been changed and is provided below:

Question #	Response Date
RAI 221 — 06.02.01-22	May 28, 2010
RAI 221 — 06.02.01-23	May 28, 2010
RAI 221 — 06.02.01-24	May 28, 2010
RAI 221 — 06.02.01-35	February 25, 2010

Since three of the remaining questions are regarding the safety-related doors and/or foils and dampers for which the responses depend on performance of the subcompartment analysis (OPEN ITEM), AREVA NP requests a telecon with NRC staff in January to gain clarity regarding the scope of the needed response with the goal of improving the response dates provided above.

Sincerely,

*Ronda Pederson*

[ronda.pederson@areva.com](mailto:ronda.pederson@areva.com)

Licensing Manager, U.S. EPR Design Certification

**AREVA NP Inc.**

An AREVA and Siemens company

3315 Old Forest Road

Lynchburg, VA 24506-0935

Phone: 434-832-3694

Cell: 434-841-8788

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**From:** Pederson Ronda M (AREVA NP INC)

**Sent:** Wednesday, September 30, 2009 4:19 PM

**To:** 'Tefaye, Getachew'

**Cc:** BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); BEELMAN Ronald J (AREVA NP INC)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 221, FSAR Ch 6, Supplement 3

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 32 questions of RAI No. 221 on June 17, 2009. Supplement 1 response to RAI No. 221 was sent on July 31, 2009 to address 4 of the remaining 29 questions. Supplement 2 response to RAI No. 221 was sent on August 27, 2009 to address 8 of the remaining 25 questions. The attached file, "RAI 221 Supplement 3 Response US EPR DC.pdf," provides technically correct and complete responses to 3 of the 17 remaining 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 221 Question 06.02.01-18.

The following table indicates the respective pages in the response document, "RAI 221 Supplement 3 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 221 — 06.02.01-16	2	2
RAI 221 — 06.02.01-18	3	3
RAI 221 — 06.02.01-20	4	5

The schedule for technically correct and complete responses to the remaining questions remains unchanged and is provided below:

Question #	Response Date
RAI 221 — 06.02.01-15	December 17, 2009
RAI 221 — 06.02.01-21	December 17, 2009
RAI 221 — 06.02.01-22	December 17, 2009
RAI 221 — 06.02.01-23	December 17, 2009
RAI 221 — 06.02.01-24	December 17, 2009
RAI 221 — 06.02.01-26	December 17, 2009
RAI 221 — 06.02.01-28	December 17, 2009
RAI 221 — 06.02.01-30	December 17, 2009
RAI 221 — 06.02.01-32	December 17, 2009
RAI 221 — 06.02.01-33	December 17, 2009
RAI 221 — 06.02.01-34	December 17, 2009
RAI 221 — 06.02.01-35	December 17, 2009
RAI 221 — 06.02.01-42	December 17, 2009
RAI 221 — 06.02.01-44	December 17, 2009

Sincerely,

*Ronda Pederson*

[ronda.pederson@areva.com](mailto:ronda.pederson@areva.com)

Licensing Manager, U.S. EPR Design Certification

**AREVA NP Inc.**

An AREVA and Siemens company

3315 Old Forest Road

Lynchburg, VA 24506-0935

Phone: 434-832-3694

Cell: 434-841-8788

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**From:** WELLS Russell D (AREVA NP INC)

**Sent:** Thursday, August 27, 2009 6:19 PM

**To:** 'Getachew Tesfaye'

**Cc:** Pederson Ronda M (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); SLIVA Dana (AREVA NP INC)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 221, FSAR Ch 6, Supplement 2

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 32 questions of RAI No. 221 on June 17, 2009. Supplement 1 response to RAI No. 221 was sent on July 31, 2009 to address 4 of the remaining 29 questions.

The attached file, "RAI 221 Supplement 2 Response US EPR DC.pdf," provides technically correct and complete responses to 8 of the remaining 25 questions.

The following table indicates the respective pages in the response document, "RAI 221 Supplement 2 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 221 — 06.02.01-27	2	5
RAI 221 — 06.02.01-29	6	7
RAI 221 — 06.02.01-38	8	13
RAI 221 — 06.02.01-39	14	14
RAI 221 — 06.02.01-40	15	15
RAI 221 — 06.02.01-41	16	18
RAI 221 — 06.02.01-43	19	20
RAI 221 — 06.02.01-46	21	22

The schedule for technically correct and complete responses to the remaining questions remains unchanged and is provided below:

Question #	Response Date
RAI 221 — 06.02.01-15	December 17, 2009
RAI 221 — 06.02.01-16	September 30, 2009
RAI 221 — 06.02.01-18	September 30, 2009
RAI 221 — 06.02.01-20	September 30, 2009
RAI 221 — 06.02.01-21	December 17, 2009
RAI 221 — 06.02.01-22	December 17, 2009
RAI 221 — 06.02.01-23	December 17, 2009
RAI 221 — 06.02.01-24	December 17, 2009
RAI 221 — 06.02.01-26	December 17, 2009
RAI 221 — 06.02.01-28	December 17, 2009
RAI 221 — 06.02.01-30	December 17, 2009
RAI 221 — 06.02.01-32	December 17, 2009
RAI 221 — 06.02.01-33	December 17, 2009
RAI 221 — 06.02.01-34	December 17, 2009
RAI 221 — 06.02.01-35	December 17, 2009
RAI 221 — 06.02.01-42	December 17, 2009
RAI 221 — 06.02.01-44	December 17, 2009

Sincerely,

(Russ Wells on behalf of)

*Ronda Pederson*

[ronda.pederson@areva.com](mailto:ronda.pederson@areva.com)

Licensing Manager, U.S. EPR Design Certification

New Plants Deployment

**AREVA NP, Inc.**

An AREVA and Siemens company

3315 Old Forest Road

Lynchburg, VA 24506-0935

Phone: 434-832-3694

Cell: 434-841-8788

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**From:** Pederson Ronda M (AREVA NP INC)

**Sent:** Friday, July 31, 2009 2:51 PM

**To:** 'Tefaye, Getachew'

**Cc:** BEELMAN Ronald J (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 221, FSARCh. 6 , Supplement 1

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 32 questions of RAI No. 221 on June 17, 2009. The attached file, "RAI 221 Supplement 1 Response US EPR DC.pdf" provides technically correct and complete responses to 4 of the remaining 29 questions and a revised schedule for the one partial response (RAI 221 — 06.02.01-38c) of the remaining 29 questions.

The following table indicates the respective pages in the response document, "RAI 221 Supplement 1 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

<b>Question #</b>	<b>Start Page</b>	<b>End Page</b>
RAI 221 — 06.02.01-25	2	2
RAI 221 — 06.02.01-31	3	3
RAI 221 — 06.02.01-36	4	4
RAI 221 — 06.02.01-37	5	5

The schedule for technically correct and complete responses to the remaining questions has been changed and is provided below:

<b>Question #</b>	<b>Response Date</b>
RAI 221 — 06.02.01-15	December 17, 2009
RAI 221 — 06.02.01-16	September 30, 2009
RAI 221 — 06.02.01-18	September 30, 2009
RAI 221 — 06.02.01-20	September 30, 2009
RAI 221 — 06.02.01-21	December 17, 2009
RAI 221 — 06.02.01-22	December 17, 2009
RAI 221 — 06.02.01-23	December 17, 2009
RAI 221 — 06.02.01-24	December 17, 2009
RAI 221 — 06.02.01-26	December 17, 2009
RAI 221 — 06.02.01-27	August 27, 2009
RAI 221 — 06.02.01-28	December 17, 2009
RAI 221 — 06.02.01-29	August 27, 2009
RAI 221 — 06.02.01-30	December 17, 2009
RAI 221 — 06.02.01-32	December 17, 2009
RAI 221 — 06.02.01-33	December 17, 2009
RAI 221 — 06.02.01-34	December 17, 2009
RAI 221 — 06.02.01-35	December 17, 2009
RAI 221 — 06.02.01-38c	August 27, 2009
RAI 221 — 06.02.01-39	August 27, 2009
RAI 221 — 06.02.01-40	August 27, 2009
RAI 221 — 06.02.01-41	August 27, 2009
RAI 221 — 06.02.01-42	December 17, 2009
RAI 221 — 06.02.01-43	August 27, 2009
RAI 221 — 06.02.01-44	December 17, 2009
RAI 221 — 06.02.01-46	August 27, 2009

Sincerely,

*Ronda Pederson*

[ronda.pederson@areva.com](mailto:ronda.pederson@areva.com)

Licensing Manager, U.S. EPR Design Certification

**AREVA NP Inc.**

An AREVA and Siemens company

3315 Old Forest Road

Lynchburg, VA 24506-0935

Phone: 434-832-3694

Cell: 434-841-8788

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**From:** Pederson Ronda M (AREVA NP INC)

**Sent:** Wednesday, June 17, 2009 5:41 PM

**To:** 'Getachew Tesfaye'

**Cc:** BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); GUCWA Len T (EXT); BEELMAN Ronald J (AREVA NP INC)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 221, FSARCh. 6 (Part 2 of 2)

Getachew,

Attached is response to RAI 221 (Part 2 of 2).

*Ronda Pederson*

[ronda.pederson@areva.com](mailto:ronda.pederson@areva.com)

Licensing Manager, U.S. EPR Design Certification

**AREVA NP Inc.**

An AREVA and Siemens company

3315 Old Forest Road

Lynchburg, VA 24506-0935

Phone: 434-832-3694

Cell: 434-841-8788

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**From:** Pederson Ronda M (AREVA NP INC)

**Sent:** Wednesday, June 17, 2009 5:09 PM

**To:** 'Getachew Tesfaye'

**Cc:** BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); GUCWA Len T (EXT); BEELMAN Ronald J (AREVA NP INC)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 221, FSARCh. 6 (Part 1 of 2)

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 221 Response US EPR DC.pdf" provides technically correct and complete responses to 3 of the 32 questions.

The following table indicates the respective pages in the response document, "RAI 221 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
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RAI 221 — 06.02.01-15	2	2
RAI 221 — 06.02.01-16	3	3
RAI 221 — 06.02.01-17	4	4
RAI 221 — 06.02.01-18	5	5
RAI 221 — 06.02.01-19	6	6
RAI 221 — 06.02.01-20	7	7
RAI 221 — 06.02.01-21	8	8
RAI 221 — 06.02.01-22	9	9
RAI 221 — 06.02.01-23	10	10
RAI 221 — 06.02.01-24	11	11
RAI 221 — 06.02.01-25	12	12
RAI 221 — 06.02.01-26	13	13
RAI 221 — 06.02.01-27	14	14
RAI 221 — 06.02.01-28	15	15
RAI 221 — 06.02.01-29	16	16
RAI 221 — 06.02.01-30	17	17
RAI 221 — 06.02.01-31	18	18
RAI 221 — 06.02.01-32	19	19
RAI 221 — 06.02.01-33	20	20
RAI 221 — 06.02.01-34	21	21
RAI 221 — 06.02.01-35	22	22
RAI 221 — 06.02.01-36	23	23
RAI 221 — 06.02.01-37	24	24
RAI 221 — 06.02.01-38	25	25
RAI 221 — 06.02.01-39	26	26
RAI 221 — 06.02.01-40	27	27
RAI 221 — 06.02.01-41	28	28
RAI 221 — 06.02.01-42	29	29
RAI 221 — 06.02.01-43	30	30
RAI 221 — 06.02.01-44	31	31
RAI 221 — 06.02.01-45	32	34
RAI 221 — 06.02.01-46	35	35

A complete answer is not provided for 29 of the 32 questions. The schedule for a technically correct and complete response to these questions is provided below.

<b>Question #</b>	<b>Response Date</b>
RAI 221 — 06.02.01-15	December 17, 2009
RAI 221 — 06.02.01-16	September 30, 2009
RAI 221 — 06.02.01-18	September 30, 2009
RAI 221 — 06.02.01-20	September 30, 2009
RAI 221 — 06.02.01-21	December 17, 2009
RAI 221 — 06.02.01-22	December 17, 2009
RAI 221 — 06.02.01-23	December 17, 2009
RAI 221 — 06.02.01-24	December 17, 2009
RAI 221 — 06.02.01-25	July 31, 2009
RAI 221 — 06.02.01-26	December 17, 2009
RAI 221 — 06.02.01-27	August 27, 2009
RAI 221 — 06.02.01-28	December 17, 2009
RAI 221 — 06.02.01-29	August 27, 2009
RAI 221 — 06.02.01-30	December 17, 2009

RAI 221 — 06.02.01-31	July 31, 2009
RAI 221 — 06.02.01-32	December 17, 2009
RAI 221 — 06.02.01-33	December 17, 2009
RAI 221 — 06.02.01-34	December 17, 2009
RAI 221 — 06.02.01-35	December 17, 2009
RAI 221 — 06.02.01-36	July 31, 2009
RAI 221 — 06.02.01-37	July 31, 2009
RAI 221 — 06.02.01-38c	July 31, 2009
RAI 221 — 06.02.01-39	August 27, 2009
RAI 221 — 06.02.01-40	August 27, 2009
RAI 221 — 06.02.01-41	August 27, 2009
RAI 221 — 06.02.01-42	December 17, 2009
RAI 221 — 06.02.01-43	August 27, 2009
RAI 221 — 06.02.01-44	December 17, 2009
RAI 221 — 06.02.01-46	August 27, 2009

Sincerely,

*Ronda Pederson*

[ronda.pederson@areva.com](mailto:ronda.pederson@areva.com)

Licensing Manager, U.S. EPR Design Certification

**AREVA NP Inc.**

An AREVA and Siemens company

3315 Old Forest Road

Lynchburg, VA 24506-0935

Phone: 434-832-3694

Cell: 434-841-8788

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**From:** Getachew Tesfaye [mailto:Getachew.Tesfaye@nrc.gov]

**Sent:** Tuesday, May 19, 2009 7:30 PM

**To:** ZZ-DL-A-USEPR-DL

**Cc:** Walton Jensen; Christopher Jackson; Jason Carneal; Joseph Colaccino; ArevaEPRDCPEm Resource

**Subject:** U.S. EPR Design Certification Application RAI No. 221 (2792), FSARCh. 6

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on April 14, 2009, and on May 15, 2009, you informed us that the RAI is clear with exception of Draft RAI Question 06.02.01-15, Part 33. After further evaluation, the staff has determined that Draft RAI Question 06.02.01-15, Part 33 is unnecessary and it is deleted. Additionally, per your request, RAI 221 has been renumbered to break up the single RAI question with 32 parts into 32 separate questions, i.e. Question 06.02.01-15, Part1-32 are now Questions 06.02.01-15 - Question 06.02.01-46. 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:** 2843

**Mail Envelope Properties** (1F1CC1BBDC66B842A46CAC03D6B1CD41043A7ABB)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 221, FSAR Ch 6,  
Supplement 14  
**Sent Date:** 4/13/2011 5:09:09 PM  
**Received Date:** 4/13/2011 5:09:12 PM  
**From:** WELLS Russell (AREVA)

**Created By:** Russell.Wells@areva.com

**Recipients:**

"GUCWA Len (EXTERNAL AREVA)" <Len.Gucwa.ext@areva.com>

Tracking Status: None

"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

"Tsfaye, Getachew" <Getachew.Tsfaye@nrc.gov>

Tracking Status: None

**Post Office:** AUSLYNCMX02.adom.ad.corp

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**Recipients Received:**