

## ArevaEPRDCPEm Resource

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**From:** WILLIFORD Dennis (AREVA) [Dennis.Williford@areva.com]  
**Sent:** Tuesday, February 26, 2013 7:59 PM  
**To:** Snyder, Amy  
**Cc:** Miernicki, Michael; DELANO Karen (AREVA); LEIGHLITER John (AREVA); ROMINE Judy (AREVA); RYAN Tom (AREVA); WILLS Tiffany (AREVA)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 215, FSAR Ch 3, Supplement 7

Amy,

AREVA NP Inc. (AREVA NP) provided responses to 2 of the 24 questions of RAI No. 215 on June 18, 2009. AREVA NP submitted Supplement 1 to the response on August 19, 2009, to address 6 of the remaining questions. AREVA NP submitted Supplement 2 to the response on September 17, 2009, to address 2 of the remaining questions. AREVA NP submitted Supplement 3 to the response on September 29, 2009 to address 4 of the remaining questions. AREVA NP submitted Supplement 4 to the response on October 20, 2009 to address 9 of the remaining questions. AREVA NP submitted Supplement 5 to the response on October 20, 2009 to address the remaining question. On July 8, 2011, AREVA NP submitted Supplement 6 to provide revised responses to 3 questions (Questions 03.07.01-21, 03.07.02-39, and 03.07.02-41).

As provided in AREVA NP Inc. letter NRC:12:072 dated December 20, 2012 which transmitted the U.S. EPR Revised Closure Plan for Civil/Structural Open Items, AREVA NP committed to provide NRC a revised schedule and response for Question 03.07.01-22.

The schedule for a technically correct and complete revised response to Question 03.07.01-22 is provided below.

Question #	Response Date
RAI 215 — 03.07.01-22	<b>June 6, 2013</b>

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](mailto:Dennis.Williford@areva.com)

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**From:** WILLIFORD Dennis (RS/NB)  
**Sent:** Friday, July 08, 2011 9:41 AM  
**To:** Tesfaye, Getachew  
**Cc:** 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. 215, FSAR Ch 3, Supplement 6

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 2 of the 24 questions of RAI No. 215 on June 18, 2009. AREVA NP submitted Supplement 1 to the response on August 19, 2009, to address 6 of the remaining questions. AREVA NP submitted Supplement 2 to the response on September 17, 2009, to address 2 of the remaining questions. AREVA NP submitted Supplement 3 to the response on September 29, 2009 to address

4 of the remaining questions. AREVA NP submitted Supplement 4 to the response on October 20, 2009 to address 9 of the remaining questions. AREVA NP submitted Supplement 5 to the response on October 20, 2009 to address the remaining question.

The responses to 3 questions (Questions 03.07.01-21, 03.07.02-39, and 03.07.02-41) are superseded by the response to RAI 320 Question 03.07.02-63. The attached file, "RAI 215 Supplement 6 Response US EPR DC.pdf" provides the revised responses.

The following table indicates the respective pages in the response document, "RAI 215 Supplement 6 Response US EPR.pdf," that contain AREVA NP's revised responses to the subject questions.

Question #	Start Page	End Page
RAI 215 — 03.07.01-21	2	2
RAI 215 — 03.07.02-39	3	3
RAI 215 — 03.07.02-41	4	4

This concludes the formal AREVA NP response to RAI 215, 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.***

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 Charlotte, NC 28262  
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 Email: [Dennis.Williford@areva.com](mailto:Dennis.Williford@areva.com)

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**From:** Pederson Ronda M (AREVA NP INC)  
**Sent:** Tuesday, October 20, 2009 7:24 PM  
**To:** 'Tefaye, Getachew'  
**Cc:** BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); VAN NOY Mark (EXT)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 215, FSAR Ch 3, Supplement 5

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 2 of the 24 questions of RAI No. 215 on June 18, 2009. AREVA NP submitted Supplement 1 to the response on August 19, 2009, to address 6 of the remaining questions. AREVA NP submitted Supplement 2 to the response on September 17, 2009, to address 2 of the remaining questions. AREVA NP submitted Supplement 3 to the response on September 29, 2009 to address 4 of the remaining questions. AREVA NP submitted Supplement 4 to the response on October 20, 2009 to address 9 of the remaining questions.

The **proprietary** and non-proprietary versions of a technically correct and complete response to the remaining question is submitted via AREVA NP Inc. letter, "Response to U.S. EPR Design Certification Application RAI No. 215, Question 03.07.01-22," NRC 09:107, dated October 20, 2009. An affidavit to support withholding of information from public disclosure, per 10CFR2.390(b), is provided as an enclosure to that letter.

The following table indicates the respective pages in the response document that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 215—03.07.01-22	2	3

This concludes the formal AREVA NP response to RAI 215, and there are no questions from this RAI for which AREVA NP has not provided responses.

Sincerely,

*Ronda Pederson*

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

Licensing Manager, U.S. EPR Design Certification

**AREVA NP Inc.**

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Lynchburg, VA 24506-0935

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

**Sent:** Tuesday, October 20, 2009 6:46 PM

**To:** 'Tefsaye, Getachew'

**Cc:** BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); VAN NOY Mark (EXT)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 215, FSAR Ch 3, Supplement 4

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 2 of the 24 questions of RAI No. 215 on June 18, 2009. AREVA NP submitted Supplement 1 to the response on August 19, 2009, to address 6 of the remaining 22 questions. AREVA NP submitted Supplement 2 to the response on September 17, 2009, to address 2 of the remaining 16 questions. AREVA NP submitted Supplement 3 to the response on September 29, 2009 to address 4 of the remaining 14 questions. The attached file, "RAI 215 Supplement 4 Response US EPR DC.pdf" provides technically correct and complete responses to 9 of the remaining 10 questions, as committed. Since the remaining response contains proprietary information it is being submitted separately.

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 215 Questions 03.07.01-23, 03.07.02-38, 03.07.03-22, 03.07.03-23, 03.07.03-24, 03.07.03-25, 03.07.03-32, and 03.07.03-34.

The following table indicates the respective page(s) in the response document, "RAI 215 Supplement 4 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 215 — 03.07.01-23	2	8
RAI 215 — 03.07.01-24	9	10
RAI 215 — 03.07.02-38	11	11
RAI 215 — 03.07.03-22	12	12
RAI 215 — 03.07.03-23	13	13
RAI 215 — 03.07.03-24	14	14
RAI 215 — 03.07.03-25	15	17
RAI 215 — 03.07.03-32	18	18
RAI 215 — 03.07.03-34	19	19

The schedule for a technically correct and complete response to the remaining 1 question is provided below:

Question #	Response Date
RAI 215 — 03.07.01-22	October 20, 2009

Sincerely,

*Ronda Pederson*

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

Licensing Manager, U.S. EPR Design Certification

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

**Sent:** Tuesday, September 29, 2009 6:54 PM

**To:** 'Tesfaye, Getachew'

**Cc:** BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); VAN NOY Mark (EXT)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 215, FSAR Ch 3, Supplement 3

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 2 of the 24 questions of RAI No. 215 on June 18, 2009. AREVA NP submitted Supplement 1 to the response on August 19, 2009, to address 6 of the remaining 22 questions. AREVA NP submitted Supplement 2 to the response on September 17, 2009, to address 2 of the remaining 16 questions. The attached file, "RAI 215 Supplement 3 Response US EPR DC.pdf" provides technically correct and complete responses to 4 of the remaining 14 questions, as committed.

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 215 Questions 03.07.02-40, 03.07.03-27, and 03.07.03-33.

The following table indicates the respective pages in the response document, "RAI 215 Supplement 3 Response US EPR DC.pdf" that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 215 — 03.07.02-39	2	2
RAI 215 — 03.07.02-40	3	3
RAI 215 — 03.07.03-27	4	4
RAI 215 — 03.07.03-33	5	5

The schedule for technically correct and complete responses to the remaining 10 questions has been changed due to their interdependence with other responses that remain in process and is provided below:

Question #	Response Date
RAI 215 — 03.07.01-22	October 20, 2009
RAI 215 — 03.07.01-23	October 20, 2009
RAI 215 — 03.07.01-24	October 20, 2009

RAI 215 — 03.07.02-38	October 20, 2009
RAI 215 — 03.07.03-22	October 20, 2009
RAI 215 — 03.07.03-23	October 20, 2009
RAI 215 — 03.07.03-24	October 20, 2009
RAI 215 — 03.07.03-25	October 20, 2009
RAI 215 — 03.07.03-32	October 20, 2009
RAI 215 — 03.07.03-34	October 20, 2009

Sincerely,

*Ronda Pederson*

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

Licensing Manager, U.S. EPR Design Certification

**AREVA NP Inc.**

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

**Sent:** Thursday, September 17, 2009 4:58 PM

**To:** 'Tsfaye, Getachew'

**Cc:** BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); VAN NOY Mark (EXT); RYAN Tom (AREVA NP INC)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 215, FSAR Ch 3, Supplement 2

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 2 of the 24 questions of RAI No. 215 on June 18, 2009. AREVA NP submitted Supplement 1 to the response on August 19, 2009, to address 6 of the remaining 22 questions. The attached file, "RAI 215 Supplement 2 Response US EPR DC.pdf" provides technically correct and complete responses to 2 of the remaining 16 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 215 Question 03.07.01-21

The following table indicates the respective pages in the response document, "RAI 215 Supplement 2 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 215 — 03.07.01-21	2	2
RAI 215 — 03.07.03-26	3	5

The schedule for technically correct and complete responses to the remaining 14 questions has been changed due to design change processing delays for several of the responses and is provided below:

Question #	Response Date
RAI 215 — 03.07.01-22	September 29, 2009
RAI 215 — 03.07.01-23	September 29, 2009
RAI 215 — 03.07.01-24	September 29, 2009

RAI 215 — 03.07.02-38	September 29, 2009
RAI 215 — 03.07.02-39	September 29, 2009
RAI 215 — 03.07.02-40	September 29, 2009
RAI 215 — 03.07.03-22	September 29, 2009
RAI 215 — 03.07.03-23	September 29, 2009
RAI 215 — 03.07.03-24	September 29, 2009
RAI 215 — 03.07.03-25	September 29, 2009
RAI 215 — 03.07.03-27	September 29, 2009
RAI 215 — 03.07.03-32	September 29, 2009
RAI 215 — 03.07.03-33	September 29, 2009
RAI 215 — 03.07.03-34	September 29, 2009

Sincerely,

*Ronda Pederson*

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

Licensing Manager, U.S. EPR Design Certification

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

**Sent:** Wednesday, August 19, 2009 4:51 PM

**To:** 'Teskaye, Getachew'

**Cc:** BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); VAN NOY Mark (EXT)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 215, FSAR Ch 3, Supplement 1

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 2 of the 24 questions of RAI No. 215 on June 18, 2009. The attached file, "RAI 215 Supplement 1 Response US EPR DC.pdf" provides technically correct and complete responses to 6 of the remaining 22 questions, as committed.

The responses to three questions cannot be provided as originally committed at this time. Responses to RAI 215, Questions 03.07.01-24, 03.07.02-38, and 03.07.03-23 are being deferred due to their interdependence with other responses that are not scheduled to be submitted until September 29, 2009.

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 215 Questions 03.07.01-20, 03.07.02-42, 03.07.03-29, and 03.07.03-30.

The following table indicates the respective pages in the response document, "RAI 215 Supplement 1 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 215 — 03.07.01-20	2	2
RAI 215 — 03.07.02-41	3	4
RAI 215 — 03.07.02-42	5	5
RAI 215 — 03.07.03-28	6	6
RAI 215 — 03.07.03-29	7	7
RAI 215 — 03.07.03-30	8	8

The schedule for technically correct and complete responses to the remaining 16 questions has been revised as provided below:

Question #	Response Date
RAI 215 — 03.07.01-21	September 18, 2009
RAI 215 — 03.07.01-22	September 18, 2009
RAI 215 — 03.07.01-23	September 29, 2009
RAI 215 — 03.07.01-24	September 29, 2009
RAI 215 — 03.07.02-38	September 29, 2009
RAI 215 — 03.07.02-39	September 29, 2009
RAI 215 — 03.07.02-40	September 29, 2009
RAI 215 — 03.07.03-22	September 18, 2009
RAI 215 — 03.07.03-23	September 29, 2009
RAI 215 — 03.07.03-24	September 18, 2009
RAI 215 — 03.07.03-25	September 18, 2009
RAI 215 — 03.07.03-26	September 18, 2009
RAI 215 — 03.07.03-27	September 18, 2009
RAI 215 — 03.07.03-32	September 29, 2009
RAI 215 — 03.07.03-33	September 29, 2009
RAI 215 — 03.07.03-34	September 29, 2009

Sincerely,

*Ronda Pederson*

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

Licensing Manager, U.S. EPR Design Certification

**AREVA NP Inc.**

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3315 Old Forest Road

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

**Sent:** Thursday, June 18, 2009 4:14 PM

**To:** 'Getachew Tesfaye'

**Cc:** Pederson Ronda M (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. 215, FSAR Ch 3

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 215 Response US EPR DC.pdf" provides technically correct and complete responses to 2 of the 24 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 215 Question 03.07.03-31.

The following table indicates the respective pages in the response document, "RAI 215 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 215 — 03.07.01-20	2	2
RAI 215 — 03.07.01-21	3	3
RAI 215 — 03.07.01-22	4	4
RAI 215 — 03.07.01-23	5	6
RAI 215 — 03.07.01-24	7	7
RAI 215 — 03.07.02-38	8	8
RAI 215 — 03.07.02-39	9	9
RAI 215 — 03.07.02-40	10	10
RAI 215 — 03.07.02-41	11	11
RAI 215 — 03.07.02-42	12	12
RAI 215 — 03.07.03-22	13	13
RAI 215 — 03.07.03-23	14	14
RAI 215 — 03.07.03-24	15	15
RAI 215 — 03.07.03-25	16	16
RAI 215 — 03.07.03-26	17	17
RAI 215 — 03.07.03-27	18	18
RAI 215 — 03.07.03-28	19	19
RAI 215 — 03.07.03-29	20	20
RAI 215 — 03.07.03-30	21	21
RAI 215 — 03.07.03-31	22	22
RAI 215 — 03.07.03-32	23	23
RAI 215 — 03.07.03-33	24	24
RAI 215 — 03.07.03-34	25	25
RAI 215 — 03.12-17	26	27

A complete answer is not provided for 22 of the 24 questions. The schedule for a technically correct and complete response to these questions is provided below.

<b>Question #</b>	<b>Response Date</b>
RAI 215 — 03.07.01-20	August 19, 2009
RAI 215 — 03.07.01-21	September 18, 2009
RAI 215 — 03.07.01-22	September 18, 2009
RAI 215 — 03.07.01-23	September 29, 2009
RAI 215 — 03.07.01-24	August 19, 2009
RAI 215 — 03.07.02-38	August 19, 2009
RAI 215 — 03.07.02-39	September 29, 2009
RAI 215 — 03.07.02-40	September 29, 2009
RAI 215 — 03.07.02-41	August 19, 2009
RAI 215 — 03.07.02-42	August 19, 2009
RAI 215 — 03.07.03-22	September 18, 2009



RAI 215 — 03.07.03-23	August 19, 2009
RAI 215 — 03.07.03-24	September 18, 2009
RAI 215 — 03.07.03-25	September 18, 2009
RAI 215 — 03.07.03-26	September 18, 2009
RAI 215 — 03.07.03-27	September 18, 2009
RAI 215 — 03.07.03-28	August 19, 2009
RAI 215 — 03.07.03-29	August 19, 2009
RAI 215 — 03.07.03-30	August 19, 2009
RAI 215 — 03.07.03-32	September 29, 2009
RAI 215 — 03.07.03-33	September 29, 2009
RAI 215 — 03.07.03-34	September 29, 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.**

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

**Sent:** Tuesday, May 19, 2009 9:33 PM

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

**Cc:** Manas Chakravorty; Jim Xu; Sujit Samaddar; Kaihwa Hsu; Anthony Hsia; Michael Miernicki; Jay Patel; Joseph Colaccino; ArevaEPRDCPEm Resource

**Subject:** U.S. EPR Design Certification Application RAI No. 215 (2560, 2561,2565, 2588), FSAR Ch. 3

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 19, 2009, you informed us that the RAI is clear but you needed clarification for Questions 3.7.3-26 and 3.7.3-31. To support the review schedule, we have decided to issue the RAI as is and conduct the clarification telecon at a later time. 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:** 4236

**Mail Envelope Properties** (554210743EFE354B8D5741BEB695E6560E7772)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 215, FSAR Ch  
3, Supplement 7  
**Sent Date:** 2/26/2013 7:58:50 PM  
**Received Date:** 2/26/2013 7:58:59 PM  
**From:** WILLIFORD Dennis (AREVA)

**Created By:** Dennis.Williford@areva.com

**Recipients:**

"Miernicki, Michael" <Michael.Miernicki@nrc.gov>  
Tracking Status: None  
"DELANO Karen (AREVA)" <Karen.Delano@areva.com>  
Tracking Status: None  
"LEIGHLITER John (AREVA)" <John.Leighliter@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  
"WILLS Tiffany (AREVA)" <Tiffany.Wills@areva.com>  
Tracking Status: None  
"Snyder, Amy" <Amy.Snyder@nrc.gov>  
Tracking Status: None

**Post Office:** FUSLYNCMX03.fdom.ad.corp

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	20360	2/26/2013 7:58:59 PM

**Options**

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