# **ArevaEPRDCPEm Resource**

From: WILLIFORD Dennis (AREVA) [Dennis.Williford@areva.com]

**Sent:** Wednesday, May 25, 2011 11:36 AM

To: Tesfaye, Getachew

Cc: BENNETT Kathy (AREVA); DELANO Karen (AREVA); ROMINE Judy (AREVA); RYAN Tom

(AREVA); KOWALSKI David (AREVA)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 277, FSAR Ch. 9,

Supplement 17

Importance: High

Getachew.

AREVA NP Inc. provided responses to 5 of the 12 questions of RAI No. 277 on October 16, 2009. Supplement 1 response to RAI No. 277 was sent on December 9, 2009 to provide a revised schedule for the remaining questions. Supplement 2 response to RAI No. 277 was sent on February 4, 2010 to address 1 of the remaining 7 questions. Supplement 3 response to RAI No. 277 was sent on March 11, 2010 to address 1 of the remaining 6 questions. Supplement 4, Supplement 5, Supplement 6, Supplement 7, Supplement 8, Supplement 9, Supplement 10, Supplement 11, Supplement 12 and Supplement 13 responses to RAI No. 277 were sent on April 14, 2010, May 6, 2010, May 27, 2010, June 24, 2010, July 28, 2010, August 27, 2010, September 22, 2010, October 25, 2010, November 12, 2010 and December 10, 2010, respectively, to provide a revised schedule. Supplement 14 response to RAI No. 277 was sent on February 28, 2011 to address 2 of the remaining 5 questions. Supplement 15 and Supplement 16 responses to RAI No. 277 were sent on March 30, 2011 and April 26, 2011, respectively, to provide a revised schedule for the remaining 3 questions.

The schedule for a technically correct and complete response to the remaining 3 questions has been changed and is provided below.

Question #	Response Date
RAI 277 — 09.04.01-1	June 30, 2011
RAI 277 — 09.04.02-1	June 30, 2011
RAI 277 — 09.04.03-3	June 30, 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: Tuesday, April 26, 2011 5:40 PM

To: 'Tesfaye, Getachew'

Cc: KOWALSKI David (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. 277, FSAR Ch. 9, Supplement 16

Getachew,

AREVA NP Inc. provided responses to 5 of the 12 questions of RAI No. 277 on October 16, 2009. Supplement 1 response to RAI No. 277 was sent on December 9, 2009 to provide a revised schedule for the remaining questions. Supplement 2 response to RAI No. 277 was sent on February 4, 2010 to address 1 of the remaining 7 questions. Supplement 3 response to RAI No. 277 was sent on March 11, 2010 to address 1 of the remaining 6 questions. Supplement 4, Supplement 5, Supplement 6, Supplement 7, Supplement 8, Supplement 9, Supplement 10, Supplement 11, Supplement 12 and Supplement 13 responses to RAI No. 277 were sent on April 14, 2010, May 6, 2010, May 27, 2010, June 24, 2010, July 28, 2010, August 27, 2010, September 22, 2010, October 25, 2010, November 12, 2010 and December 10, 2010, respectively, to provide a revised schedule. Supplement 14 response to RAI No. 277 was sent on February 28, 2011 to address 2 of the remaining 5 questions. Supplement 15 response to RAI No. 277 was sent on March 30, 2011 to provide a revised schedule for the remaining three questions.

To provide additional time to interact with the NRC, a revised schedule is provided in this e-mail.

The schedule for technically correct and complete responses to the three questions is provided below:

Question #	Response Date
RAI 277 — 09.04.01-1	May 27, 2011
RAI 277 — 09.04.02-1	May 27, 2011
RAI 277 — 09.04.03-3	May 27, 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: WELLS Russell (RS/NB)

Sent: Wednesday, March 30, 2011 1:02 PM

**To:** 'Tesfave, Getachew'

Cc: KOWALSKI David (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. 277, FSAR Ch. 9, Supplement 15

## Getachew,

AREVA NP Inc. provided responses to 5 of the 12 questions of RAI No. 277 on October 16, 2009. Supplement 1 response to RAI No. 277 was sent on December 9, 2009 to provide a revised schedule for the remaining questions. Supplement 2 response to RAI No. 277 was sent on February 4, 2010 to address 1 of the remaining 7 questions. Supplement 3 response to RAI No. 277 was sent on March 11, 2010 to address 1 of the remaining 6 questions. Supplement 4, Supplement 5, Supplement 6, Supplement 7, Supplement 8, Supplement 9, Supplement 10, Supplement 11, Supplement 12 and Supplement 13 responses to RAI No. 277 were sent on April 14, 2010, May 6, 2010, May 27, 2010, June 24, 2010, July 28, 2010, August 27, 2010, September 22, 2010, October 25, 2010, November 12, 2010 and December 10, 2010, respectively, to provide

a revised schedule. Supplement 14 response to RAI No. 277 was sent on February 28, 2011 to address 2 of the remaining 5 questions.

To provide additional time to interact with the NRC, a revised schedule is provided in this e-mail.

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

Question #	Response Date
RAI 277 — 09.04.01-1	April 29, 2011
RAI 277 — 09.04.02-1	April 29, 2011
RAI 277 — 09.04.03-3	April 29, 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: WELLS Russell (RS/NB)

Sent: Monday, February 28, 2011 2:22 PM

To: 'Tesfaye, Getachew'

**Cc:** BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); ROMINE Judy (RS/NB); KOWALSKI David (RS/NB) **Subject:** Response to U.S. EPR Design Certification Application RAI No. 277, FSAR Ch. 9, Supplement 14

## Getachew,

AREVA NP Inc. provided responses to 5 of the 12 questions of RAI No. 277 on October 16, 2009. Supplement 1 response to RAI No. 277 was sent on December 9, 2009 to provide a revised schedule for the remaining questions. Supplement 2 response to RAI No. 277 was sent on February 4, 2010 to address 1 of the remaining 7 questions. Supplement 3 response to RAI No. 277 was sent on March 11, 2010 to address 1 of the remaining 6 questions. Supplement 4, Supplement 5, Supplement 6, Supplement 7, Supplement 8, Supplement 9, Supplement 10, Supplement 11, Supplement 12 and Supplement 13 responses to RAI No. 277 were sent on April 14, 2010, May 6, 2010, May 27, 2010, June 24, 2010, July 28, 2010, August 27, 2010, September 22, 2010, October 25, 2010, November 12, 2010 and December 10, 2010, respectively, to provide a revised schedule.

The attached file, "RAI 277 Supplement 14 Response US EPR DC.pdf" provides technically correct and complete responses to two of the remaining five questions.

Appended to this file are affected pages of the U.S. EPR Final Safety Analysis Report in redline-strikeout format which supports the response to RAI 277 Question 09.04.05-2.

The following table indicates the respective pages in the response document, "RAI 277 Supplement 14 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 277 — 09.04.03-1	2	2
RAI 277 — 09.04.05-2	3	4

To provide additional time to interact with the NRC, a revised schedule is provided in this e-mail.

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

Question #	Response Date
RAI 277 — 09.04.01-1	March 31, 2011
RAI 277 — 09.04.02-1	March 31, 2011
RAI 277 — 09.04.03-3	March 31, 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:** BRYAN Martin (External RS/NB) **Sent:** Friday, December 10, 2010 1:05 PM

To: 'Tesfaye, Getachew'

**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); KOWALSKI David (RS/NB) **Subject:** Response to U.S. EPR Design Certification Application RAI No. 277, FSAR Ch. 9, Supplement 13

## Getachew,

AREVA NP Inc. provided responses to 5 of the 12 questions of RAI No. 277 on October 16, 2009. Supplement 1 response to RAI No. 277 was sent on December 9, 2009 to provide a revised schedule for the remaining questions. Supplement 2 response to RAI No. 277 was sent on February 4, 2010 to address 1 of the remaining 7 questions. Supplement 3 response to RAI No. 277 was sent on March 11, 2010 to address 1 of the remaining 6 questions. Supplement 4, Supplement 5, Supplement 6, Supplement 7, Supplement 8, Supplement 9, Supplement 10, Supplement 11 and Supplement 12 responses to RAI No. 277 were sent on April 14, 2010, May 6, 2010, May 27, 2010, June 24, 2010, July 28, 2010, August 27, 2010, September 22, 2010, October 25, 2010 and November 12, 2010, respectively, to provide a revised schedule.

To provide additional time to interact with the NRC, a revised schedule is provided in this e-mail.

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

Question #	Response Date
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RAI 277 — 09.04.01-1	March 10, 2011
RAI 277 — 09.04.02-1	March 10, 2011
RAI 277 — 09.04.03-1	March 10, 2011
RAI 277 — 09.04.03-3	March 10, 2011
RAI 277 — 09.04.05-2	March 10, 2011

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

**From:** BRYAN Martin (External RS/NB) **Sent:** Friday, November 12, 2010 2:26 PM

To: 'Tesfaye, Getachew'

Cc: DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); KOWALSKI David (RS/NB); 'Miernicki,

Michael'

Subject: Response to U.S. EPR Design Certification Application RAI No. 277, FSAR Ch. 9, Supplement 12

Getachew,

AREVA NP Inc. provided responses to 5 of the 12 questions of RAI No. 277 on October 16, 2009. Supplement 1 response to RAI No. 277 was sent on December 9, 2009 to provide a revised schedule for the remaining questions. Supplement 2 response to RAI No. 277 was sent on February 4, 2010 to address 1 of the remaining 7 questions. Supplement 3 response to RAI No. 277 was sent on March 11, 2010 to address 1 of the remaining 6 questions. Supplement 4, Supplement 5, Supplement 6, Supplement 7, Supplement 8, Supplement 9, Supplement 10 and Supplement 11 responses to RAI No. 277 were sent on April 14, 2010, May 6, 2010, May 27, 2010, June 24, 2010, July 28, 2010, August 27, 2010, September 22, 2010 and October 25, 2010, respectively, to provide a revised schedule.

To provide additional time to interact with the NRC, a revised schedule is provided in this e-mail.

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

Question #	Response Date
RAI 277 — 09.04.01-1	December 10, 2010
RAI 277 — 09.04.02-1	December 10, 2010
RAI 277 — 09.04.03-1	December 10, 2010
RAI 277 — 09.04.03-3	December 10, 2010
RAI 277 — 09.04.05-2	December 10, 2010

Sincerely,

Martin (Marty) C. Bryan U.S. EPR Design Certification Licensing Manager AREVA NP Inc.

Tel: (434) 832-3016

**From:** BRYAN Martin (External RS/NB) **Sent:** Monday, October 25, 2010 1:14 PM

To: 'Getachew.Tesfaye@nrc.gov'

**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); KOWALSKI David (RS/NB) **Subject:** Response to U.S. EPR Design Certification Application RAI No. 277, FSAR Ch. 9, Supplement 11

#### Getachew.

AREVA NP Inc. provided responses to 5 of the 12 questions of RAI No. 277 on October 16, 2009. Supplement 1 response to RAI No. 277 was sent on December 9, 2009 to provide a revised schedule for the remaining questions. Supplement 2 response to RAI No. 277 was sent on February 4, 2010 to address 1 of the remaining 7 questions. Supplement 3 response to RAI No. 277 was sent on March 11, 2010 to address 1 of the remaining 6 questions. Supplement 4, Supplement 5, Supplement 6, Supplement 7, Supplement 8, Supplement 9 and Supplement 10 responses to RAI No. 277 were sent on April 14, 2010, May 6, 2010, May 27, 2010, June 24, 2010, July 28, 2010, August 27, 2010, and September 22 respectively, to provide a revised schedule.

To provide additional time to process the response, a revised schedule is provided in this e-mail.

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

Question #	Response Date
RAI 277 — 09.04.01-1	November 12, 2010
RAI 277 — 09.04.02-1	November 12, 2010
RAI 277 — 09.04.03-1	November 12, 2010
RAI 277 — 09.04.03-3	November 12, 2010
RAI 277 — 09.04.05-2	November 12, 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

From: BRYAN Martin (External RS/NB)

Sent: Wednesday, September 22, 2010 2:38 PM

To: 'Tesfaye, Getachew'

**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); KOWALSKI David (RS/NB) **Subject:** Response to U.S. EPR Design Certification Application RAI No. 277, FSAR Ch. 9, Supplement 10

Getachew,

AREVA NP Inc. provided responses to 5 of the 12 questions of RAI No. 277 on October 16, 2009. Supplement 1 response to RAI No. 277 was sent on December 9, 2009 to provide a revised schedule for the remaining questions. Supplement 2 response to RAI No. 277 was sent on February 4, 2010 to address 1 of the remaining 7 questions. Supplement 3 response to RAI No. 277 was sent on March 11, 2010 to address 1 of the remaining 6 questions. Supplement 4, Supplement 5, Supplement 6, Supplement 7, Supplement 8 and Supplement 9 responses to RAI No. 277 were sent on April 14, 2010, May 6, 2010, May 27, 2010, June 24, 2010, July 28, 2010 and August 27, 2010, respectively, to provide a revised schedule.

To provide additional time to interact with the NRC, a revised schedule is provided in this e-mail.

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

Question #	Response Date
RAI 277 — 09.04.01-1	October 26, 2010
RAI 277 — 09.04.02-1	October 26, 2010
RAI 277 — 09.04.03-1	October 26, 2010
RAI 277 — 09.04.03-3	October 26, 2010
RAI 277 — 09.04.05-2	October 26, 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

**From:** BRYAN Martin (External RS/NB) **Sent:** Friday, August 27, 2010 11:57 AM

**To:** 'Tesfaye, Getachew'

**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); KOWALSKI David (RS/NB) **Subject:** Response to U.S. EPR Design Certification Application RAI No. 277, FSAR Ch. 9, Supplement 9

Getachew,

AREVA NP Inc. provided responses to 5 of the 12 questions of RAI No. 277 on October 16, 2009. Supplement 1 response to RAI No. 277 was sent on December 9, 2009 to provide a revised schedule for the remaining questions. Supplement 2 response to RAI No. 277 was sent on February 4, 2010 to address 1 of the remaining 7 questions. Supplement 3 response to RAI No. 277 was sent on March 11, 2010 to address 1 of the remaining 6 questions. Supplement 4, Supplement 5, Supplement 6, Supplement 7 and Supplement 8 responses to RAI No. 277 were sent on April 14, 2010, May 6, 2010, May 27, 2010, June 24, 2010 and July 28, 2010, respectively, to provide a revised schedule.

On June 25, 2010, DRAFT responses to the remaining 5 questions were submitted to the NRC staff.

To allow time for interaction between AREVA and the NRC staff, a revised schedule is provided in this e-mail.

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

Question #	Response Date
RAI 277 — 09.04.01-1	September 24, 2010
RAI 277 — 09.04.02-1	September 24, 2010
RAI 277 — 09.04.03-1	September 24, 2010
RAI 277 — 09.04.03-3	September 24, 2010
RAI 277 — 09.04.05-2	September 24, 2010

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

From: BRYAN Martin (EXT)

**Sent:** Wednesday, July 28, 2010 5:16 PM

To: 'Tesfaye, Getachew'

Cc: DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC);

KOWALSKI David J (AREVA NP INC)

Subject: Response to U.S. EPR Design Certification Application RAI No. 277, FSAR Ch. 9, Supplement 8

## Getachew.

AREVA NP Inc. provided responses to 5 of the 12 questions of RAI No. 277 on October 16, 2009. Supplement 1 response to RAI No. 277 was sent on December 9, 2009 to provide a revised schedule for the remaining questions. Supplement 2 response to RAI No. 277 was sent on February 4, 2010 to address 1 of the remaining 7 questions. Supplement 3 response to RAI No. 277 was sent on March 11, 2010 to address 1 of the remaining 6 questions. Supplement 4, Supplement 5, Supplement 6 and Supplement 7 responses to RAI No. 277 were sent on April 14, 2010, May 6, 2010, May 27, 2010 and June 24, 2010, respectively, to provide a revised schedule.

To allow time for interaction between AREVA and the NRC staff on the draft response submitted June 24, 2010, a revised schedule is provided in this e-mail.

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

Question #	Response Date
RAI 277 — 09.04.01-1	August 27, 2010
RAI 277 — 09.04.02-1	August 27, 2010
RAI 277 — 09.04.03-1	August 27, 2010
RAI 277 — 09.04.03-3	August 27, 2010
RAI 277 — 09.04.05-2	August 27, 2010

## Sincerely,

Martin (Marty) C. Bryan U.S. EPR Design Certification Licensing Manager AREVA NP Inc. Tel: (434) 832-3016 From: BRYAN Martin (EXT)

**Sent:** Thursday, June 24, 2010 4:31 PM

To: 'Tesfaye, Getachew'

Cc: DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC);

KOWALSKI David J (AREVA NP INC)

Subject: Response to U.S. EPR Design Certification Application RAI No. 277, FSAR Ch. 9, Supplement 7

#### Getachew,

AREVA NP Inc. provided responses to 5 of the 12 questions of RAI No. 277 on October 16, 2009. Supplement 1 response to RAI No. 277 was sent on December 9, 2009 to provide a revised schedule for the remaining questions. Supplement 2 response to RAI No. 277 was sent on February 4, 2010 to address 1 of the remaining 7 questions. Supplement 3 response to RAI No. 277 was sent on March 11, 2010 to address 1 of the remaining 6 questions. Supplement 4, Supplement 5 and Supplement 6 responses to RAI No. 277 were sent on April 14, 2010, May 6, 2010 and May 27, 2010, respectively, to provide a revised schedule.

To allow time for interaction between AREVA and the NRC staff, a revised schedule is provided in this e-mail.

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

Question #	Response Date	
RAI 277 — 09.04.01-1	July 28, 2010	
RAI 277 — 09.04.02-1	July 28, 2010	
RAI 277 — 09.04.03-1	July 28, 2010	
RAI 277 — 09.04.03-3	July 28, 2010	
RAI 277 — 09.04.05-2	July 28, 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

From: BRYAN Martin (EXT)

**Sent:** Thursday, May 27, 2010 7:05 AM

To: 'Tesfaye, Getachew'

Cc: DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC);

KOWALSKI David J (AREVA NP INC)

Subject: Response to U.S. EPR Design Certification Application RAI No. 277, FSAR Ch. 9, Supplement , Supplement 6

Getachew.

AREVA NP Inc. provided responses to 5 of the 12 questions of RAI No. 277 on October 16, 2009. Supplement 1 response to RAI No. 277 was sent on December 9, 2009 to provide a revised schedule for the remaining

questions. Supplement 2 response to RAI No. 277 was sent on February 4, 2010 to address 1 of the remaining 7 questions. Supplement 3 response to RAI No. 277 was sent on March 11, 2010 to address 1 of the remaining 6 questions. Supplement 4 and Supplement 5 responses to RAI No. 277 were sent on April 14, 2010 and May 6, 2010 to provide a revised schedule. Since additional time is needed for AREVA to discuss the responses to the questions with the NRC, an updated schedule is provided in this e-mail.

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

Question #	Response Date		
RAI 277 — 09.04.01-1	June 24, 2010		
RAI 277 — 09.04.02-1	June 24, 2010		
RAI 277 — 09.04.03-1	June 24, 2010		
RAI 277 — 09.04.03-3	June 24, 2010		
RAI 277 — 09.04.05-2	June 24, 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

From: BRYAN Martin (EXT)

**Sent:** Thursday, May 06, 2010 3:59 PM

To: 'Tesfaye, Getachew'

Cc: DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC);

KOWALSKI David J (AREVA NP INC)

Subject: Response to U.S. EPR Design Certification Application RAI No. 277, FSAR Ch. 9, Supplement, Supplement 5

### Getachew,

AREVA NP Inc. provided responses to 5 of the 12 questions of RAI No. 277 on October 16, 2009. Supplement 1 response to RAI No. 277 was sent on December 9, 2009 to provide a revised schedule for the remaining questions. Supplement 2 response to RAI No. 277 was sent on February 4, 2010 to address 1 of the remaining 7 questions. Supplement 3 response to RAI No. 277 was sent on March 11, 2010 to address 1 of the remaining 6 questions. Supplement 4 response to RAI No. 277 was sent on April 14, 2010 to provide a revised schedule.

To allow time for AREVA to discuss the responses to the remaining questions with the NRC, a revised schedule is provided in this e-mail that has been agreed to by the NRC.

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

Question #	Response Date
RAI 277 — 09.04.01-1	May 27, 2010
RAI 277 — 09.04.02-1	May 27, 2010
RAI 277 — 09.04.03-1	May 27, 2010

RAI 277 — 09.04.03-3	May 27, 2010
RAI 277 — 09.04.05-2	May 27, 2010

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

From: BRYAN Martin (EXT)

Sent: Wednesday, April 14, 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);

KOWALSKI David J (AREVA NP INC)

Subject: Response to U.S. EPR Design Certification Application RAI No. 277, FSAR Ch. 9, Supplement 4

#### Getachew.

AREVA NP Inc. provided responses to 5 of the 12 questions of RAI No. 277 on October 16, 2009. Supplement 1 response to RAI No. 277 was sent on December 9, 2009 to provide a revised schedule for the remaining questions. Supplement 2 response to RAI No. 277 was sent on February 4, 2010 to address 1 of the remaining 7 questions. Supplement 3 response to RAI No. 277 was sent on March 11, 2010 to address 1 of the remaining 6 questions.

To allow time for AREVA to discuss the responses to the remaining questions with the NRC, a revised schedule is provided in this e-mail.

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

Question #	Response Date	
RAI 277 — 09.04.01-1	May 6, 2010	
RAI 277 — 09.04.02-1	May 6, 2010	
RAI 277 — 09.04.03-1	May 6, 2010	
RAI 277 — 09.04.03-3	May 6, 2010	
RAI 277 — 09.04.05-2	May 6, 2010	

## Sincerely,

Martin (Marty) C. Bryan Licensing Advisory Engineer AREVA NP Inc.

Tel: (434) 832-3016

Martin.Bryan.ext@areva.com

From: BRYAN Martin (EXT)

**Sent:** Thursday, March 11, 2010 4:11 PM

To: 'Tesfaye, Getachew'

Cc: DELANO Karen V (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); ROMINE Judy (AREVA NP INC);

KOWALSKI David J (AREVA NP INC)

Subject: Response to U.S. EPR Design Certification Application RAI No. 277, FSAR Ch. 9, Supplement 3

#### Getachew.

AREVA NP Inc. provided responses to 5 of the 12 questions of RAI No. 277 on October 16, 2009. Supplement 1 response to RAI No. 277 was sent on December 9, 2009 to provide a revised schedule for the remaining questions. Supplement 2 response to RAI No. 277 was sent on February 4, 2010 to address 1 of the remaining 7 questions.

The attached file, "RAI 277 Supplement 3 Response US EPR DC.pdf" provides a technically correct and complete response to 1 of the remaining 6 questions.

Appended to this file are affected pages of the U.S. EPR Final Safety Analysis Report in redline-strikeout format which supports the response to RAI 277 Question 09.02.05-21.

The following table indicates the respective pages in the response document, "RAI 277 Supplement 3 Response US EPR DC.pdf," that contain AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 277 — 09.02.05-21	2	3

The schedule for a technically correct and complete response to the remaining 5 questions is unchanged and provided below:

Question #	Response Date		
RAI 277 — 09.04.01-1	April 14, 2010		
RAI 277 — 09.04.02-1	April 14, 2010		
RAI 277 — 09.04.03-1	April 14, 2010		
RAI 277 — 09.04.03-3	April 14, 2010		
RAI 277 — 09.04.05-2	April 14, 2010		

## Sincerely,

Martin (Marty) C. Bryan Licensing Advisory Engineer AREVA NP Inc.

Tel: (434) 832-3016

Martin.Bryan.ext@areva.com

From: DUNCAN Leslie E (AREVA NP INC)
Sent: Thursday, February 04, 2010 3:14 PM

To: 'Tesfaye, Getachew'

Cc: DELANO Karen V (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); KOWALSKI David J (AREVA NP INC)

Subject: Response to U.S. EPR Design Certification Application RAI No. 277, FSAR Ch. 9, Supplement 2

Getachew,

AREVA NP Inc. provided responses to 5 of the 12 questions of RAI No. 277 on October 16, 2009. AREVA NP submitted Supplement 1 to the response on December 9, 2009 to provide a revised schedule. The attached file, "RAI 277 Supplement 2 Response US EPR DC.pdf" provides a technically correct and complete response to one of the remaining seven questions. The schedule for the remaining six questions has been revised.

Appended to this file are affected pages of the U.S. EPR Final Safety Analysis Report in redline-strikeout format which supports the response to RAI 277 Question 09.04.03-2.

The following table indicates the respective pages in the response document, "RAI 277 Supplement 2 Response US EPR DC.pdf," that contain AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 277 — 09.04.03-2	2	2

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

Question #	Response Date	
RAI 277 — 09.02.05-21	March 12, 2010	
RAI 277 — 09.04.01-1	April 14, 2010	
RAI 277 — 09.04.02-1	April 14, 2010	
RAI 277 — 09.04.03-1	April 14, 2010	
RAI 277 — 09.04.03-3	April 14, 2010	
RAI 277 — 09.04.05-2	April 14, 2010	

Sincerely,

Les Duncan
Licensing Engineer
AREVA NP Inc.
An AREVA and Siemens Company

Tel: (434) 832-2849 Leslie.Duncan@areva.com

**From:** Pederson Ronda M (AREVA NP INC) **Sent:** Wednesday, December 09, 2009 4:03 PM

**To:** 'Tesfaye, Getachew'

Cc: BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); KOWALSKI David J (AREVA NP INC)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 277, FSAR Ch. 9, Supplement 1

Getachew,

AREVA NP Inc. provided responses to 5 of the 12 questions of RAI No. 277 on October 16, 2009. AREVA NP also provided a schedule for technically correct and complete responses to the remaining 7 questions.

Since responses to the remaining questions remain in process, a revised schedule is provided in this email.

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

Question #	Response Date
RAI 277 — 09.02.05-21	February 4, 2010

RAI 277 — 09.04.01-1	February 4, 2010
RAI 277 — 09.04.02-1	February 4, 2010
RAI 277 — 09.04.03-1	February 4, 2010
RAI 277 — 09.04.03-2	February 4, 2010
RAI 277 — 09.04.03-3	February 4, 2010
RAI 277 — 09.04.05-2	February 4, 2010

# Ronda Pederson

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

**From:** Pederson Ronda M (AREVA NP INC) **Sent:** Friday, October 16, 2009 5:33 PM

To: 'Tesfaye, Getachew'

Cc: BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); KOWALSKI David J (AREVA NP INC)

Subject: Response to U.S. EPR Design Certification Application RAI No. 277, FSAR Ch. 9

# Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 277 Response US EPR DC.pdf" provides technically correct and complete responses to 5 of the 12 questions.

Appended to this file are affected pages of the U.S. EPR Final Safety Analysis Report in redline-strikeout format which supports the response to RAI 277 Questions 09.04.02-2, 09.04.04-1, and 09.05.01-71.

The following table indicates the respective page(s) in the response document, "RAI 277 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 277 — 09.02.05-21	2	2
RAI 277 — 09.04.01-1	3	3
RAI 277 — 09.04.02-1	4	4
RAI 277 — 09.04.02-2	5	5
RAI 277 — 09.04.03-1	6	6
RAI 277 — 09.04.03-2	7	7
RAI 277 — 09.04.03-3	8	8
RAI 277 — 09.04.04-1	9	10
RAI 277 — 09.04.04-2	11	11
RAI 277 — 09.04.05-2	12	12
RAI 277 — 09.05.01-71	13	13
RAI 277 — 09.05.06-12	14	14

A complete answer is not provided for 7 of the 12 questions. The schedule for a technically correct and complete response to these questions is provided below.

Question #	Response Date
RAI 277 — 09.02.05-21	December 10, 2009
RAI 277 — 09.04.01-1	December 10, 2009
RAI 277 — 09.04.02-1	December 10, 2009
RAI 277 — 09.04.03-1	December 10, 2009
RAI 277 — 09.04.03-2	December 10, 2009
RAI 277 — 09.04.03-3	December 10, 2009
RAI 277 — 09.04.05-2	December 10, 2009

Sincerely,

# Ronda Pederson

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

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

Sent: Wednesday, September 16, 2009 12:52 PM

To: ZZ-DL-A-USEPR-DL

Cc: Wheeler, Larry; Segala, John; ODriscoll, James; Jackson, Christopher; Snodderly, Michael; McCann, Edward;

Radlinski, Robert; Wolfgang, Robert; Hearn, Peter; Colaccino, Joseph; ArevaEPRDCPEm Resource

**Subject:** U.S. EPR Design Certification Application RAI No. 277(3538,3371,3372,3376,3374,3375,3399,2995)), FSAR Ch.

9

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on August 17, 2009, and discussed with your staff on August 31, 2009. Draft RAI Questions 09.05.01-70 was deleted 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: 3029

Mail Envelope Properties (2FBE1051AEB2E748A0F98DF9EEE5A5D4727B1D)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 277, FSAR Ch.

9, Supplement 17

 Sent Date:
 5/25/2011 11:36:04 AM

 Received Date:
 5/25/2011 11:36:29 AM

 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

"KOWALSKI David (AREVA)" < David. Kowalski@areva.com>

Tracking Status: None

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

Tracking Status: None

**Post Office:** auscharmx02.adom.ad.corp

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MESSAGE 34967 5/25/2011 11:36:29 AM

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