

ArevaEPRDCPEm Resource

From: WELLS Russell (AREVA) [Russell.Wells@areva.com]
Sent: Thursday, April 28, 2011 6:08 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. 191, FSARCh. 15, Supplement 9

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 7 questions of RAI 191 on April 9, 2009. AREVA NP submitted Supplement 1 to the response on May 29, 2009 providing partial responses to the 6 remaining questions. AREVA NP submitted Supplement 2 to the response on June 1, 2009 providing a revised response to Question 15.06.05-46. AREVA NP submitted Supplement 3 to the response on December 18, 2009 to provide a revised response schedule. AREVA NP submitted Supplement 4 to the response on April 22, 2010 to provide a revised response schedule. AREVA NP submitted Supplement 5 to the response on May 20, 2010 to provide a revised response to Question 15.06.05-48. The Supplement 5 response also deferred the completion schedule until a public meeting could be held. On July 14, 2010 and November 18, 2010, AREVA NP submitted Supplement 6 and Supplement 7 response to RAI 191, respectively, to revise the response schedule. Supplement 8 response to RAI 191 was provided on March 31, 2011 to revise the schedule for responding to the remaining questions.

To provide an opportunity for additional technical evaluations and interaction with the NRC staff, AREVA NP is providing a revised schedule for responding to Questions 15.06.05-43 through 15.06.05-47 and Question 15.06.05-49 as provided below.

Question #	Response Date
RAI 191—15.06.05-43	August 31, 2011
RAI 191—15.06.05-44	August 31, 2011
RAI 191—15.06.05-45	August 31, 2011
RAI 191—15.06.05-46	August 31, 2011
RAI 191—15.06.05-47	August 31, 2011
RAI 191—15.06.05-49	August 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: WELLS Russell (RS/NB)
Sent: Thursday, March 31, 2011 1:31 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. 191, FSARCh. 15, Supplement 8

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 7 questions of RAI 191 on April 9, 2009. AREVA NP submitted Supplement 1 to the response on May 29, 2009 providing partial responses to the 6 remaining questions. AREVA NP submitted Supplement 2 to the response on June 1, 2009 providing a revised response to Question 15.06.05-46. AREVA NP submitted Supplement 3 to the response on December 18, 2009 to provide a revised response schedule. AREVA NP submitted Supplement 4 to the response on April 22, 2010 to provide a revised response schedule. AREVA NP submitted Supplement 5 to the response on May 20, 2010 to provide a revised response to Question 15.06.05-48. The Supplement 5 response also deferred the completion schedule until a public meeting could be held. On July 14, 2010 and November 18, 2010, AREVA NP submitted Supplement 6 and Supplement 7 response to RAI 191, respectively, to revise the response schedule.

The 6 remaining questions include evaluations of the in-vessel, downstream effects of debris bypassing sump strainers. The schedule for responding to the remaining RAI 191 questions has been revised and is provided below.

Question #	Response Date
RAI 191—15.06.05-43	April 30, 2011
RAI 191—15.06.05-44	April 30, 2011
RAI 191—15.06.05-45	April 30, 2011
RAI 191—15.06.05-46	April 30, 2011
RAI 191—15.06.05-47	April 30, 2011
RAI 191—15.06.05-49	April 30, 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)

From: BRYAN Martin (External RS/NB)
Sent: Thursday, November 18, 2010 11:49 AM
To: Tesfaye, Getachew
Cc: DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); GUCWA Len (External RS/NB); Miernicki, Michael
Subject: Response to U.S. EPR Design Certification Application RAI No. 191, FSARCh. 15, Supplement 7

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 7 questions of RAI 191 on April 9, 2009. AREVA NP submitted Supplement 1 to the response on May 29, 2009 providing partial responses to the 6 remaining questions. AREVA NP submitted Supplement 2 to the response on June 1, 2009 providing a revised response to Question 15.06.05-46. AREVA NP submitted Supplement 3 to the response on December 18, 2009 to provide a revised response schedule. AREVA NP submitted Supplement 4 to the response on April 22, 2010 to provide a revised response schedule. AREVA NP submitted Supplement 5 to the response on May 20, 2010 to provide a revised response to Question 15.06.05-48. The Supplement 5 response also deferred the completion schedule until a public meeting could be held.

On July 14, 2010, AREVA NP submitted Supplement 6 response to RAI 191 to revise the response schedule. The responses to the 6 remaining questions in RAI 191 are dependent upon the results of ongoing re-evaluations of GSI-191 source term, sump strainer design and testing. A revised schedule for providing technically correct and complete responses to the remaining questions in RAI 191 was developed based on these ongoing activities. The schedule for technically correct and complete responses to the RAI 191 questions is provided below.

Question #	Response Date
RAI 191—15.06.05-43	March 31, 2011
RAI 191—15.06.05-44	March 31, 2011
RAI 191—15.06.05-45	March 31, 2011
RAI 191—15.06.05-46	March 31, 2011
RAI 191—15.06.05-47	March 31, 2011
RAI 191—15.06.05-49	March 31, 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

From: BRYAN Martin (EXT)
Sent: Wednesday, July 14, 2010 3:08 PM
To: 'Teshfaye, 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. 191, FSARCh. 15, Supplement 6

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 7 questions of RAI 191 on April 9, 2009. AREVA NP submitted Supplement 1 to the response on May 29, 2009 providing partial responses to the 6 remaining questions. AREVA NP submitted Supplement 2 to the response on June 1, 2009 providing a revised response to Question 15.06.05-46. AREVA NP submitted Supplement 3 to the response on December 18, 2009 to provide a revised response schedule. AREVA NP submitted Supplement 4 to the response on April 22, 2010 to provide a revised response schedule. AREVA NP submitted Supplement 5 to the response on May 20, 2010 to provide a revised response to Question 15.06.05-48. The Supplement 5 response also deferred the completion schedule until a public meeting could be held.

The responses to the 6 questions in RAI 191 are dependent upon the results of ongoing GSI-191 testing and evaluations of downstream effects on fuel assemblies. A revised schedule for providing technically correct and complete responses to the remaining questions in RAI 191 was developed based on these ongoing activities. Timelines for completing supporting activities were discussed with the NRC staff during a public meeting held at NRC headquarters on July 7, 2010. The schedule for technically correct and complete responses to the RAI 191 questions is provided below.

Question #	Response Date
RAI 191—15.06.05-43	November 19, 2010
RAI 191—15.06.05-44	November 19, 2010
RAI 191—15.06.05-45	November 19, 2010
RAI 191—15.06.05-46	November 19, 2010
RAI 191—15.06.05-47	November 19, 2010
RAI 191—15.06.05-49	November 19, 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 20, 2010 3:57 PM
To: 'Tefaye, 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. 191, FSARCh. 15, Supplement 5

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 7 questions of RAI No. 191 on April 9, 2009. AREVA NP submitted Supplement 1 to the response on May 29, 2009 providing partial responses to the 6 remaining questions. AREVA NP submitted Supplement 2 to the response on June 1, 2009 providing a revised response to Question 15.06.05-46. AREVA NP submitted Supplement 3 to the response on December 18, 2009 to provide a revised response schedule. AREVA NP submitted Supplement 4 to the response on April 22, 2010 to provide a revised response schedule.

The attached file, "RAI 191 Supplement 5 Response US EPR DC.pdf" supersedes the response to Question 15.06.05-48 provided in the April 9, 2009 response. The revised response is based on the recently revised technical report ANP-10293, Rev. 1, "U.S. EPR Design Features to Address GSI-191."

The following table indicates the respective page in the response document, "RAI 191 Supplement 5 Response US EPR DC.pdf," that contains AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 191 — 15.06.05-48	2	2

The schedule for technically correct and complete responses to the remaining 6 questions is pending the results of an upcoming GSI-191 public meeting.

Question #	Response Date
RAI 191—15.06.05-43	(to be determined)
RAI 191—15.06.05-44	(to be determined)
RAI 191—15.06.05-45	(to be determined)
RAI 191—15.06.05-46	(to be determined)
RAI 191—15.06.05-47	(to be determined)
RAI 191—15.06.05-49	(to be determined)

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, April 22, 2010 6:24 PM
To: 'Getachew.Tesfaye@nrc.gov'
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. 191, FSARCh. 15, Supplement 4

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 7 questions of RAI No. 191 on April 9, 2009. AREVA NP submitted Supplement 1 to the response on May 29, 2009 providing partial responses to the 6 remaining questions. AREVA NP submitted Supplement 2 to the response on June 1, 2009 providing a revised response to Question 15.06.05-46. AREVA NP submitted Supplement 3 to the response on December 18, 2009 to provide a revised response schedule.

The responses to the remaining questions in RAI 191 are dependent upon the results of ongoing GSI-191 evaluations of downstream effects on fuel assemblies, including additional testing. Because of these ongoing activities, AREVA NP is not providing a response at this time. A revised schedule for providing a technically correct and complete response to the remaining questions in RAI 191 will be provided within two weeks following the April 29, 2010 public meeting on GSI-191.

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: Pederson Ronda M (AREVA NP INC)
Sent: Friday, December 18, 2009 3:25 PM
To: 'Tesfaye, Getachew'
Cc: BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); GUCWA Len T (EXT)
Subject: Response to U.S. EPR Design Certification Application RAI No. 191, FSARCh. 15, Supplement 3

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 7 questions of RAI No. 191 on April 9, 2009. AREVA NP submitted Supplement 1 to the response on May 29, 2009 providing partial responses to the 6 remaining questions. AREVA NP submitted Supplement 2 to the response on June 1, 2009 providing a revised response to Question 15.06.05-46.

Responses to the remaining RAI 191 questions are dependent upon the results of ongoing GSI-191 head loss testing, which will demonstrate sump strainer performance. Because additional testing is planned, AREVA NP is not providing a response at this time.

The schedule for technically correct and complete responses to the remaining 6 questions has been revised and is provided below.

Question #	Response Date
RAI 191—15.06.05-43	April 22, 2010
RAI 191—15.06.05-44	April 22, 2010
RAI 191—15.06.05-45	April 22, 2010
RAI 191—15.06.05-46	April 22, 2010
RAI 191—15.06.05-47	April 22, 2010
RAI 191—15.06.05-49	April 22, 2010

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: Pederson Ronda M (AREVA NP INC)
Sent: Monday, June 01, 2009 3:30 PM
To: 'Getachew Tesfaye'
Cc: BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); DUNCAN Leslie E (AREVA NP INC); GUCWA Len T (EXT)
Subject: Response to U.S. EPR Design Certification Application RAI No. 191, FSARCh. 15, Supplement 2

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 7 questions of RAI No. 191 on April 9, 2009. AREVA NP submitted Supplement 1 to the response on May 29, 2009 providing partial responses to the 6 remaining questions. The attached file, "RAI 191 Supplement 2 Response US EPR DC.pdf" provides a revised response to Question 15.06.05-46. This response supersedes, in its entirety, the respective Supplement 1 response to RAI 191, Question 15.06.05-46 provided by email dated May 29, 2009.

The following table indicates the respective pages in the response document, "RAI 191 Supplement 2 Response US EPR DC.pdf," that contain AREVA NP's partial response to the subject question.

Question #	Start Page	End Page
RAI 191—15.06.05-46	2	3

The schedule for technically correct and complete responses to the remaining 6 questions is unchanged and provided below.

Question #	Response Date
RAI 191—15.06.05-43	December 18, 2009
RAI 191—15.06.05-44	December 18, 2009
RAI 191—15.06.05-45	December 18, 2009
RAI 191—15.06.05-46	December 18, 2009
RAI 191—15.06.05-47	December 18, 2009
RAI 191—15.06.05-49	December 18, 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: Pederson Ronda M (AREVA NP INC)

Sent: Friday, May 29, 2009 9:45 AM

To: 'Getachew Tesfaye'

Cc: BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); GUCWA Len T (EXT); 'Michael Miernicki'

Subject: Response to U.S. EPR Design Certification Application RAI No. 191, FSARCh. 15, Supplement 1

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 7 questions of RAI No. 191 on April 9, 2009.

The response file, "RAI 191 Supplement 1 Response US EPR DC.pdf" provides partial responses to the 6 remaining questions.

The following table indicates the respective pages in the response document, "RAI 191 Supplement 1 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 191—15.06.05-43	2	2
RAI 191—15.06.05-44	3	3
RAI 191—15.06.05-45	4	4
RAI 191—15.06.05-46	5	6
RAI 191—15.06.05-47	7	7
RAI 191—15.06.05-49	8	8

A complete answer is not provided for 6 of the 7 questions of RAI No. 191. The schedule for providing technically correct and complete responses to the remaining questions has been changed and is provided below.

Question #	Response Date
RAI 191—15.06.05-43	December 18, 2009
RAI 191—15.06.05-44	December 18, 2009
RAI 191—15.06.05-45	December 18, 2009
RAI 191—15.06.05-46	December 18, 2009
RAI 191—15.06.05-47	December 18, 2009
RAI 191—15.06.05-49	December 18, 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: DUNCAN Leslie E (AREVA NP INC)

Sent: Thursday, April 09, 2009 11:29 AM

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. 191 (2228), FSARCh. 15

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 191 Response US EPR DC.pdf" provides a technically correct and complete response to 1 of the 7 questions.

The following table indicates the respective pages in the response document, "RAI 191 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 191—15.06.05-43	2	2
RAI 191—15.06.05-44	3	3
RAI 191—15.06.05-45	4	4
RAI 191—15.06.05-46	5	5
RAI 191—15.06.05-47	6	6
RAI 191—15.06.05-48	7	10
RAI 191—15.06.05-49	11	11

A complete answer is not provided for 6 of the 7 questions. The schedule for a technically correct and complete response to these questions is provided below.

Question #	Response Date
RAI 191—15.06.05-43	May 29, 2009
RAI 191—15.06.05-44	May 29, 2009
RAI 191—15.06.05-45	May 29, 2009
RAI 191—15.06.05-46	May 29, 2009
RAI 191—15.06.05-47	May 29, 2009
RAI 191—15.06.05-49	May 29, 2009

Sincerely,

(on the behalf of Ronda Pederson)

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

From: Getachew Tesfaye [mailto:Getachew.Tesfaye@nrc.gov]
Sent: Wednesday, March 11, 2009 6:24 PM
To: ZZ-DL-A-USEPR-DL
Cc: Fred Forsaty; Shanlai Lu; Joseph Donoghue; Jason Carneal; Joseph Colaccino; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 191 (2228), FSARCh. 15

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on February 20, 2009, and discussed with your staff on March 3, 2009. The staff took action to review previous RAIs to determine if some of the draft questions were previously asked as suggested by AREVA during that discussion. The staff reviewed the references AREVA provided and concluded that the new RAIs were not covered by previous RAIs. Therefore, with minor modifications to draft RAI Questions 15.06.05-43, 15.06.05-44, 15.06.05-45, and 15.06.05-46, for clarification, the draft RAIs are issued as final. 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: 2907

Mail Envelope Properties (1F1CC1BBDC66B842A46CAC03D6B1CD41044AAD26)

Subject: Response to U.S. EPR Design Certification Application RAI No. 191, FSARCh.
15, Supplement 9
Sent Date: 4/28/2011 6:08:09 PM
Received Date: 4/28/2011 6:08:12 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

Files	Size	Date & Time
MESSAGE	21139	4/28/2011 6:08:12 PM

Options

Priority: Standard

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received: