ArevaEPRDCPEm Resource

From: BRYAN Martin (EXTERNAL AREVA) [Martin.Bryan.ext@areva.com]
Sent: Thursday, December 09, 2010 4:32 PM
To: Tesfaye, Getachew
Cc: DELANO Karen (AREVA); ROMINE Judy (AREVA); BENNETT Kathy (AREVA); GUCWA Len (EXTERNAL AREVA); Miernicki, Michael
Subject: Response to U.S. EPR Design Certification Application RAI No. 368, FSAR Ch 6, Supplement 7

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 23 questions in RAI No. 368 on April 19, 2010. Supplement 1 response to RAI No. 368 was sent on June 09, 2010, to address 6 of the remaining 20 questions (responses were sent in a total of 5 parts). Supplement 2 was provided on July 8, 2010 to revise the schedule for questions 06.02.01-61, 63, 70, 71, 73, 76, 78, 80, and 81. Supplement 3 response to RAI No. 368 was provided on August 5, 2010 to revise the schedule for questions 06.02.01-62, 63, 66, 67, 68, 69, 73, 76, 78, and 81 to allow time to interact with the staff. Supplement 4 response to RAI No. 368 was provided on September 9, 2010 to revise the schedule for questions 06.02.01-66, 67, 68, 69, 73, 76, 78 and 81. Supplement 5 response to RAI No. 368 was submitted on September 29, 2010 to provide responses to Questions 06.02.02-61, 62, and 63. Supplement 6 response to RAI No. 368 was submitted on October 13, 2010 to provide responses to 7 of the remaining 11 questions.

To provide an opportunity to interact with the NRC staff, a revised response schedule is provided for Questions 06.02.01-70, 71, 73 and 80 as indicated below.

Question #	Response Date
RAI 368 — 06.02.01-70	**March 23, 2011**
RAI 368 — 06.02.01-71	**March 23, 2011**
RAI 368 — 06.02.01-73	**March 23, 2011**
RAI 368 — 06.02.01-80	**March 23, 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 (External RS/NB)
Sent: Wednesday, October 13, 2010 5:15 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. 368, FSAR Ch 6, Supplement 6

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 23 questions in RAI No. 368 on April 19, 2010. Supplement 1 response to RAI No. 368 was sent on June 09, 2010, to address 6 of the remaining 20 questions (responses were sent in a total of 5 parts). Supplement 2 was provided on July 8, 2010 to revise the schedule for questions 06.02.01-61, 63, 70, 71, 73, 76, 78, 80, and 81. Supplement 3 response to RAI No. 368 was provided on August 5, 2010 to revise the schedule for questions 06.02.01-62, 63, 66, 67, 68, 69, 73,

76, 78, and 81 to allow time to interact with the staff. Supplement 4 response to RAI No. 368 was provided on September 9, 2010 to revise the schedule for questions 06.02.01-66, 67, 68, 69, 73, 76, 78 and 81. Supplement 5 provided technically correct and complete responses for 06.02.02-61,62, and 63.

The proprietary and non-proprietary versions of the response to RAI 368 Supplement 6 are submitted via letter "Response to U.S. EPR Design Certification Application RAI 368 Supplement 6" NRC10:095, dated October 13, 2010. 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, "Proprietary RAI 368 Supplement 6 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 368 — 06.02.01-66	2	2
RAI 368 — 06.02.01-67	3	4
RAI 368 — 06.02.01-68	5	15
RAI 368 — 06.02.01-69	16	16
RAI 368 — 06.02.01-76	17	18
RAI 368 — 06.02.01-78	19	30
RAI 368 — 06.02.01-81	31	31

To provide an opportunity to interact with the NRC staff, a revised response schedule is provided for Question 06.02.01-73 as indicated below.

Question #	Response Date
RAI 368 — 06.02.01-70	December 9, 2010
RAI 368 — 06.02.01-71	December 9, 2010
RAI 368 — 06.02.01-73	**December 22, 2010**
RAI 368 — 06.02.01-80	December 22, 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 29, 2010 6:30 PM

To: 'Tesfaye, Getachew'
Cc: DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); GUCWA Len (External RS/NB); WELLS Russell (RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 368, FSAR Ch 6, Supplement 5

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 23 questions in RAI No. 368 on April 19, 2010. Supplement 1 response to RAI No. 368 was sent on June 09, 2010, to address 6 of the remaining 20 questions (responses were sent in a total of 5 parts). Supplement 2 was provided on July 8, 2010 to revise the schedule for questions 06.02.01-61, 63, 70, 71, 73, 76, 78, 80, and 81. Supplement 3 response to RAI No. 368 was provided on August 5, 2010 to revise the schedule for questions 06.02.01-62, 63, 66, 67, 68, 69, 73, 76, 78, and 81 to allow time to interact with the staff. Supplement 4 response to RAI No. 368 was provided on September 9, 2010 to revise the schedule for questions 06.02.01-66, 67, 68, 69, 73, 76, 78 and 81.

The proprietary and non-proprietary versions of the response to RAI 368 Supplement 5 are submitted via letter "Response to U.S. EPR Design Certification Application RAI 368 Supplement 5" NRC10:088, dated September 29, 2010. 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, “Proprietary RAI 368 Supplement 5 Response US EPR DC.pdf,” that contain AREVA NP’s response to the subject 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 368 Question 06.02.01-61.

Question #	Start Page	End Page
RAI 368 — 06.02.01-61	2	2
RAI 368 — 06.02.01-62	3	8
RAI 368 — 06.02.01-63	9	11

To provide an opportunity to interact with the NRC staff, a revised response schedule is provided for Questions 06.02.01-70, 71 and 80 as indicated below.

Question #	Response Date
RAI 368 — 06.02.01-66	October 13, 2010
RAI 368 — 06.02.01-67	October 13, 2010
RAI 368 — 06.02.01-68	October 13, 2010
RAI 368 — 06.02.01-69	October 13, 2010
RAI 368 — 06.02.01-70	**December 9, 2010**
RAI 368 — 06.02.01-71	**December 9, 2010**
RAI 368 — 06.02.01-73	October 13, 2010
RAI 368 — 06.02.01-76	October 13, 2010
RAI 368 — 06.02.01-78	October 13, 2010
RAI 368 — 06.02.01-80	**December 22, 2010**
RAI 368 — 06.02.01-81	October 13, 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: Thursday, September 09, 2010 2:24 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. 368, FSAR Ch 6, Supplement 4

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 23 questions in RAI No. 368 on April 19, 2010. Supplement 1 response to RAI No. 368 was sent on June 09, 2010, to address 6 of the remaining 20 questions (responses were sent in a total of 5 parts). Supplement 2 was provided on July 8, 2010 to revise the schedule for questions 06.02.01-61, 63, 70, 71, 73, 76, 78, 80, and 81. Supplement 3 response to RAI No. 368 was provided on August 5, 2010 to revise the schedule for questions 06.02.01-62, 63, 66, 67, 68, 69, 73, 76, 78, and 81 to allow time to interact with the staff.

On August 5, 2010, AREVA NP provided draft responses to RAI 368, Questions 06.02.01-66, 67, 68 and 69. Previously, on July 9, 2010, AREVA NP provided draft responses to RAI 368, Questions 06.02.01-73, 76, 78 and 81. Some of these questions will be discussed during NRC's containment audit planned for September 29-30 in Rockville, MD. To allow more time to interact with the NRC staff, the schedule is revised for the eight questions (06.02.01-66, 67, 68, 69, 73, 76, 78 and 81) as indicated below.

Question #	Response Date
RAI 368 — 06.02.01-61	September 29, 2010
RAI 368 — 06.02.01-62	September 29, 2010
RAI 368 — 06.02.01-63	September 29, 2010
RAI 368 — 06.02.01-66	**October 13, 2010**
RAI 368 — 06.02.01-67	**October 13, 2010**
RAI 368 — 06.02.01-68	**October 13, 2010**
RAI 368 — 06.02.01-69	**October 13, 2010**
RAI 368 — 06.02.01-70	September 29, 2010
RAI 368 — 06.02.01-71	September 29, 2010
RAI 368 — 06.02.01-73	**October 13, 2010**
RAI 368 — 06.02.01-76	**October 13, 2010**
RAI 368 — 06.02.01-78	**October 13, 2010**
RAI 368 — 06.02.01-80	September 29, 2010
RAI 368 — 06.02.01-81	**October 13, 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, August 05, 2010 5:10 PM
To: 'Tesfaye, Getachew'
Cc: DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); GUCWA Len T (EXT)
Subject: Response to U.S. EPR Design Certification Application RAI No. 368, FSAR Ch 6, Supplement 3

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 23 questions in RAI No. 368 on April 19, 2010. Supplement 1 response to RAI No. 368 was sent on June 09, 2010, to address 6 of the remaining 20 questions (responses were sent in a total of 5 parts). Supplement 2 was provided on July 8, 2010 to revise the schedule for questions 06.02.01-61, 63, 70, 71, 73, 76, 78, 80, and 81. To allow time to interact with the staff the schedule is revised for questions 06.02.01-62, 63, 66, 67, 68, 69, 73, 76, 78, and 81.

Question #	Response Date
RAI 368 — 06.02.01-61	September 29, 2010
RAI 368 — 06.02.01-62	**September 29, 2010**
RAI 368 — 06.02.01-63	**September 29, 2010**
RAI 368 — 06.02.01-66	**September 09, 2010**
RAI 368 — 06.02.01-67	**September 09, 2010**
RAI 368 — 06.02.01-68	**September 09, 2010**
RAI 368 — 06.02.01-69	**September 09, 2010**
RAI 368 — 06.02.01-70	September 29, 2010
RAI 368 — 06.02.01-71	September 29, 2010
RAI 368 — 06.02.01-73	**September 09, 2010**
RAI 368 — 06.02.01-76	**September 09, 2010**
RAI 368 — 06.02.01-78	**September 09, 2010**
RAI 368 — 06.02.01-80	September 29, 2010
RAI 368 — 06.02.01-81	**September 09, 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, July 08, 2010 5:42 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. 368, FSAR Ch 6, Supplement 2

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 23 questions in RAI No. 368 on April 19, 2010. Supplement 1 response to RAI No. 368 was sent on June 09, 2010, to address 6 of the remaining 20 questions (responses were sent in a total of 5 parts). To provide an opportunity to interact with the NRC staff, a revised schedule is provided below for questions 06.02.01-61, 63, 70, 71, 73, 76, 78, 80, and 81.

Question #	Response Date
RAI 368 — 06.02.01-61	**September 29, 2010**
RAI 368 — 06.02.01-62	August 5, 2010
RAI 368 — 06.02.01-63	**September 8, 2010**
RAI 368 — 06.02.01-66	August 5, 2010
RAI 368 — 06.02.01-67	August 5, 2010
RAI 368 — 06.02.01-68	August 5, 2010
RAI 368 — 06.02.01-69	August 5, 2010
RAI 368 — 06.02.01-70	**September 29, 2010**
RAI 368 — 06.02.01-71	**September 29, 2010**
RAI 368 — 06.02.01-73	**August 5, 2010**
RAI 368 — 06.02.01-76	**August 5, 2010**
RAI 368 — 06.02.01-78	**August 5, 2010**
RAI 368 — 06.02.01-80	**September 29, 2010**
RAI 368 — 06.02.01-81	**August 5, 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: Wednesday, June 09, 2010 5:32 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. 368, FSAR Ch 6, Supplement 1, Part 1 of 5

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 3 of the 23 questions in RAI No. 368 on April 19, 2010. Because of the file size, AREVA NP is providing a technically correct and complete response to 6 of the remaining 20 questions in 5 parts. The 5 files are designated as "RAI 368 Supplement 1 US EPR DC Part X of 5.pdf," where "X" is one of the five parts. The first file, part 1 of 5, contains the response to 5 of the 6 questions, and the remaining question 06.02.01-77 is transmitted in parts 2 through 5.

Attached is file, "RAI 368 Supplement 1 US EPR DC Part 1 of 5.pdf."

The following table indicates the respective pages in the response document, "RAI 368 Supplement 1 Response US EPR DC Part 1 of 5.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 368 — 06.02.01-58	2	9

RAI 368 — 06.02.01-59	10	13
RAI 368 — 06.02.01-60	14	14
RAI 368 — 06.02.01-64	15	15
RAI 368 — 06.02.01-65	16	17

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

Question #	Response Date
RAI 368 — 06.02.01-61	July 8, 2010
RAI 368 — 06.02.01-62	August 5, 2010
RAI 368 — 06.02.01-63	July 8, 2010
RAI 368 — 06.02.01-66	August 5, 2010
RAI 368 — 06.02.01-67	August 5, 2010
RAI 368 — 06.02.01-68	August 5, 2010
RAI 368 — 06.02.01-69	August 5, 2010
RAI 368 — 06.02.01-70	July 8, 2010
RAI 368 — 06.02.01-71	July 8, 2010
RAI 368 — 06.02.01-73	July 8, 2010
RAI 368 — 06.02.01-76	July 8, 2010
RAI 368 — 06.02.01-78	July 8, 2010
RAI 368 — 06.02.01-80	July 8, 2010
RAI 368 — 06.02.01-81	July 8, 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: WELLS Russell D (AREVA NP INC)
Sent: Monday, April 19, 2010 6:17 PM
To: 'Getachew Tesfaye'
Cc: BRYAN Martin (EXT); BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC)
Subject: Response to U.S. EPR Design Certification Application RAI No. 368, FSAR Ch 6

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 368 Response US EPR DC.pdf," provides technically correct and complete responses to 3 of the 23 questions.

The following table indicates the respective pages in the response document, "RAI 368 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 368 — 06.02.01-58	2	2
RAI 368 — 06.02.01-59	3	3

RAI 368 — 06.02.01-60	4	4
RAI 368 — 06.02.01-61	5	5
RAI 368 — 06.02.01-62	6	6
RAI 368 — 06.02.01-63	7	7
RAI 368 — 06.02.01-64	8	8
RAI 368 — 06.02.01-65	9	9
RAI 368 — 06.02.01-66	10	10
RAI 368 — 06.02.01-67	11	11
RAI 368 — 06.02.01-68	12	12
RAI 368 — 06.02.01-69	13	13
RAI 368 — 06.02.01-70	14	14
RAI 368 — 06.02.01-71	15	15
RAI 368 — 06.02.01-72	16	17
RAI 368 — 06.02.01-73	18	18
RAI 368 — 06.02.01-74	19	19
RAI 368 — 06.02.01-75	20	20
RAI 368 — 06.02.01-76	21	21
RAI 368 — 06.02.01-77	22	22
RAI 368 — 06.02.01-78	23	23
RAI 368 — 06.02.01-80	24	24
RAI 368 — 06.02.01-81	25	25

A complete answer is not provided for 20 of the 23 questions. The schedule for a technically correct and complete response to these questions is provided below. Some of the response dates are subject to change based on anticipated feedback from the NRC staff regarding prioritization of responses. AREVA NP plans to discuss the response schedule with the NRC staff during an April 30, 2010, meeting.

Question #	**Response Date**
RAI 368 — 06.02.01-58	June 9, 2010
RAI 368 — 06.02.01-59	June 9, 2010
RAI 368 — 06.02.01-60	June 9, 2010
RAI 368 — 06.02.01-61	July 8, 2010
RAI 368 — 06.02.01-62	August 5, 2010
RAI 368 — 06.02.01-63	July 8, 2010
RAI 368 — 06.02.01-64	July 8, 2010
RAI 368 — 06.02.01-65	June 9, 2010
RAI 368 — 06.02.01-66	August 5, 2010
RAI 368 — 06.02.01-67	August 5, 2010
RAI 368 — 06.02.01-68	August 5, 2010
RAI 368 — 06.02.01-69	August 5, 2010
RAI 368 — 06.02.01-70	July 8, 2010
RAI 368 — 06.02.01-71	July 8, 2010
RAI 368 — 06.02.01-73	July 8, 2010
RAI 368 — 06.02.01-76	July 8, 2010
RAI 368 — 06.02.01-77	June 9, 2010
RAI 368 — 06.02.01-78	July 8, 2010
RAI 368 — 06.02.01-80	July 8, 2010
RAI 368 — 06.02.01-81	July 8, 2010

Sincerely,

(Russ Wells on behalf of)
Martin (Marty) C. Bryan
Licensing Advisory Engineer
AREVA NP Inc.
Tel: (434) 832-3016
Martin.Bryan.ext@areva.com

From: Tesfaye, Getachew [mailto:Getachew.Tesfaye@nrc.gov]
Sent: Friday, March 19, 2010 4:08 PM
To: ZZ-DL-A-USEPR-DL
Cc: Jensen, Walton; Jackson, Christopher; Snodderly, Michael; Carneal, Jason; Colaccino, Joseph; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 368 (4344), FSARCh. 6

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on February 9, 2010, and discussed with your staff on March 4, 2010. Drat RAI Question 06.02.01-79 was deleted, and Draft RAI Questions 06.02.01-61, 06.02.01-72, 06.02.01-73, and 06.02.01-78 were modified 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: 2354

Mail Envelope Properties (BC417D9255991046A37DD56CF597DB710867E927)

Subject: Response to U.S. EPR Design Certification Application RAI No. 368, FSAR Ch 6, Supplement 7
Sent Date: 12/9/2010 4:32:23 PM
Received Date: 12/9/2010 4:32:27 PM
From: BRYAN Martin (EXTERNAL AREVA)

Created By: Martin.Bryan.ext@areva.com

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

Post Office: AUSLYNCMX02.adom.ad.corp

Files	**Size**	**Date & Time**
MESSAGE	19667	12/9/2010 4:32:27 PM

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