

ArevaEPRDCPEm Resource

From: BRYAN Martin (EXTERNAL AREVA) [Martin.Bryan.ext@areva.com]
Sent: Tuesday, October 26, 2010 3:16 PM
To: Tesfaye, Getachew
Cc: DELANO Karen (AREVA); ROMINE Judy (AREVA); BENNETT Kathy (AREVA); GUCWA Len (EXTERNAL AREVA)
Subject: Response to U.S. EPR Design Certification Application RAI No. 378, Supplement 8, FSAR Ch. 6
Attachments: RAI 378 S8 Response-US EPR DC.pdf

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 15 questions of RAI 378 on May 24, 2010. Supplement 1 response to RAI 378 was sent on July 8, 2010 with a revised response schedule to provide an opportunity to interact with the NRC staff on Questions 6.2.01-83, 6.2.1-85, 6.2.1-87, 6.2.1-91, 6.2.2-45, and 6.2.3-06. Supplement 2 response to RAI 378 was sent on August 5, 2010 with a revised response schedule for Questions 6.2.1-83, 6.2.1-85, 6.2.1-87 and 6.2.1-91. Supplement 3 response to RAI 378 was sent on August 12, 2010 and provided a response to 4 questions. Supplement 3 also changed the response schedule for 2 of the remaining 10 questions. Supplement 4 response to RAI 378 was sent on August 31, 2010 to provide technically correct and complete response to three questions - 6.2.1-84, 6.2.1-86 and 6.2.1-92. In addition, the schedule for question 6.2.1-93 was revised in Supplement 4. Supplement 5 response to RAI 378 was sent on September 9, 2010 with a revised schedule for Questions 6.2.1-83, 6.2.1-85, 6.2.1-87 and 6.2.1-91. Supplement 6 response to RAI 378 was sent on September 30, 2010 with a revised schedule for Question 6.2.3-6. Supplement 7 response to RAI 378 was sent on October 7, 2010 to provide technically correct and complete responses to 4 questions.

The attached file, "RAI 378 Supplement 8 Response US EPR DC.pdf" provides a technically correct and complete response to one question (Question 6.2.2-45).

The following table indicates the respective pages in the response document, "RAI 378 Supplement 8 Response US EPR DC.pdf," that contain AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 378 — 06.02.02-45	2	3

The response schedule for Question 6.2.3-6 is changed to provide additional opportunity to interact with the NRC staff as shown below. The response schedule for Question 6.2.1-93 is unchanged.

Question #	Final Response Date
RAI 378 — 06.02.01-93	November 30, 2010
RAI 378 — 06.02.03-6	November 30, 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, October 07, 2010 5:20 PM
To: 'Tefaye, 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. 378, Supplement 7, FSAR Ch. 6

Getachew,

AREVA NP Inc. letter NRC 10:91 dated October 7, 2010, provides technically correct and complete responses to four of the remaining seven questions. AREVA NP considers some of the material contained in the response to be proprietary information. As required by 10 CFR 2.390(b), an affidavit is provided to support the withholding of the proprietary information from public disclosure. Proprietary and non-proprietary versions of the enclosure to this letter are provided separately.

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

Question #	Start Page	End Page
RAI 378 — 06.02.01-83	2	3
RAI 378 — 06.02.01-85	4	15
RAI 378 — 06.02.01-87	16	66
RAI 378 — 06.02.01-91	67	67

The response schedule for the remaining three questions is unchanged and is shown below.

Question #	Final Response Date
RAI 378 — 06.02.01-93	November 30, 2010
RAI 378 — 06.02.02-45	October 27, 2010
RAI 378 — 06.02.03-6	October 27, 2010

Sincerely,

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

From: BRYAN Martin (External RS/NB)
Sent: Thursday, September 30, 2010 2:24 PM
To: 'Tefaye, Getachew'
Cc: DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); GUCWA Len (External RS/NB); RYAN Tom (RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 378, Supplement 6, FSAR Ch. 6

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 15 questions of RAI 378 on May 24, 2010. Supplement 1 response to RAI 378 was sent on July 8, 2010 with a revised response schedule to provide an opportunity to interact with the NRC staff on Questions 6.2.01-83, 6.2.1-85, 6.2.1-87, 6.2.1-91, 6.2.2-45, and

6.2.3-06. Supplement 2 response to RAI 378 was sent on August 5, 2010 with a revised response schedule for Questions 6.2.1-83, 6.2.1-85, 6.2.1-87 and 6.2.1-91. Supplement 3 response to RAI 378 was sent on August 12, 2010 and provided a response to 4 questions. Supplement 3 also changed the response schedule for 2 of the remaining 10 questions. Supplement 4 response to RAI 378 was sent on August 31, 2010 to provide technically correct and complete response to three questions - 6.2.1-84, 6.2.1-86 and 6.2.1-92. In addition, the schedule for question 6.2.1-93 was revised in Supplement 4. Supplement 5 response to RAI 378 was sent on September 9, 2010 with a revised response schedule.

To provide more time interact with the staff on question 06.02.03-6 a revised schedule is provided below. The response dates for the other six questions remains unchanged.

Question #	Final Response Date
RAI 378 — 06.02.01-83	October 14, 2010
RAI 378 — 06.02.01-85	October 14, 2010
RAI 378 — 06.02.01-87	October 14, 2010
RAI 378 — 06.02.01-91	October 14, 2010
RAI 378 — 06.02.01-93	November 30, 2010
RAI 378 — 06.02.02-45	October 27, 2010
RAI 378 — 06.02.03-6	October 27, 2010

Sincerely,

Martin (Marty) C. Bryan
 U.S. EPR Design Certification Licensing Manager
 AREVA NP Inc.
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From: BRYAN Martin (External RS/NB)
Sent: Thursday, September 09, 2010 2:40 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. 378, Supplement 5, FSAR Ch. 6

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 15 questions of RAI 378 on May 24, 2010. Supplement 1 response to RAI 378 was sent on July 8, 2010 with a revised response schedule to provide an opportunity to interact with the NRC staff on Questions 6.2.01-83, 6.2.1-85, 6.2.1-87, 6.2.1-91, 6.2.2-45, and 6.2.3-06. Supplement 2 response to RAI 378 was sent on August 5, 2010 with a revised response schedule for Questions 6.2.1-83, 6.2.1-85, 6.2.1-87 and 6.2.1-91. Supplement 3 response to RAI 378 was sent on August 12, 2010 and provided a response to 4 questions. Supplement 3 also changed the response schedule for 2 of the remaining 10 questions. Supplement 4 response to RAI 378 was sent on August 31, 2010 to provide technically correct and complete response to three questions - 6.2.1-84, 6.2.1-86 and 6.2.1-92. In addition, the schedule for question 6.2.1-93 was revised in Supplement 4.

To provide more time to finalize the responses and interact with the staff on questions 6.2.1-83, 85, 87, and 91 a revised schedule is provided below :

Question #	Final Response Date
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RAI 378 — 06.02.01-83	October 14, 2010
RAI 378 — 06.02.01-85	October 14, 2010
RAI 378 — 06.02.01-87	October 14, 2010
RAI 378 — 06.02.01-91	October 14, 2010
RAI 378 — 06.02.01-93	November 30, 2010
RAI 378 — 06.02.02-45	October 27, 2010
RAI 378 — 06.02.03-6	September 30, 2010

Sincerely,

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From: BRYAN Martin (External RS/NB)
Sent: Tuesday, August 31, 2010 9:43 AM
To: 'Tesfaye, Getachew'
Cc: DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); GUCWA Len (External RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 378, Supplement 4, FSAR Ch. 6

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 15 questions of RAI 378 on May 24, 2010. Supplement 1 response to RAI 378 was sent on July 8, 2010 with a revised response schedule to provide an opportunity to interact with the NRC staff on Questions 6.2.01-83, 6.2.1-85, 6.2.1-87, 6.2.1-91, 6.2.2-45, and 6.2.3-06. Supplement 2 response to RAI 378 was sent on August 5, 2010 with a revised response schedule for Questions 6.2.1-83, 6.2.1-85, 6.2.1-87 and 6.2.1-91. Supplement 3 response to RAI 378 was sent on August 12, 2010 and provided a response to 4 questions. Supplement 3 also changed the response schedule for 2 of the remaining 10 questions.

The attached file, "RAI 378 Supplement 4 Response US EPR DC.pdf" provides a technically correct and complete response to three questions (Question 6.2.1-84, 6.2.1-86 and 6.2.1-92).

The following table indicates the respective pages in the response document, "RAI 378 Supplement 4 Response US EPR DC.pdf," that contain AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 378 — 06.02.01-84	2	5
RAI 378 — 06.02.01-86	6	7
RAI 378 — 06.02.01-92	8	10

The response schedule for the remaining 7 questions is changed to provide additional opportunity to finalize the response and interact with the NRC staff on Question 6.2.1-93 as provided below:

Question #	Final Response Date
RAI 378 — 06.02.01-83	September 9, 2010
RAI 378 — 06.02.01-85	September 9, 2010

RAI 378 — 06.02.01-87	September 9, 2010
RAI 378 — 06.02.01-91	September 9, 2010
RAI 378 — 06.02.01-93	November 30, 2010
RAI 378 — 06.02.02-45	October 27, 2010
RAI 378 — 06.02.03-6	September 30, 2010

Sincerely,

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From: BRYAN Martin (EXT)
Sent: Thursday, August 12, 2010 2:33 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. 378, Supplement 3, FSAR Ch. 6

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 15 questions of RAI 378 on May 24, 2010. Supplement 1 response to RAI 378 was sent on July 8, 2010 with a revised response schedule to provide an opportunity to interact with the NRC staff on Questions 6.2.01-83, 6.2.1-85, 6.2.1-87, 6.2.1-91, 6.2.2-45, and 6.2.3-06. Supplement 2 response to RAI 378 was sent on August 5, 2010 with a revised response schedule for Questions 6.2.1-83, 6.2.1-85, 6.2.1-87 and 6.2.1-91.

The attached file, "RAI 378 Supplement 3 Response US EPR DC.pdf" provides a technically correct and complete response to four questions (Question 6.2.1-82, 6.2.1-88, 6.2.1-89 and 6.2.1-90).

The following table indicates the respective pages in the response document, "RAI 378 Supplement 3 Response US EPR DC.pdf," that contain AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 378 — 06.02.01-82	2	3
RAI 378 — 06.02.01-88	4	18
RAI 378 — 06.02.01-89	19	56
RAI 378 — 06.02.01-90	57	64

The response schedule for the remaining 10 questions is changed to provide additional opportunity to interact with the NRC staff on Questions 6.2.1-84 and 6.2.3-6 as provided below:

Question #	Final Response Date
RAI 378 — 06.02.01-83	September 9, 2010
RAI 378 — 06.02.01-84	September 30, 2010
RAI 378 — 06.02.01-85	September 9, 2010
RAI 378 — 06.02.01-86	August 31, 2010
RAI 378 — 06.02.01-87	September 9, 2010
RAI 378 — 06.02.01-91	September 9, 2010

RAI 378 — 06.02.01-92	August 31, 2010
RAI 378 — 06.02.01-93	August 31, 2010
RAI 378 — 06.02.02-45	October 27, 2010
RAI 378 — 06.02.03-6	September 30, 2010

Sincerely,

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From: BRYAN Martin (EXT)
Sent: Thursday, August 05, 2010 5:24 PM
To: 'Tefsaye, 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. 378, Supplement 2, FSAR Ch. 7

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 15 questions of RAI 378 on May 24, 2010. A revised schedule was provided in Supplement 1 on July 8, 2010. To provide an additional opportunity to interact with the NRC on the responses, a revised schedule is provided below for providing technically correct and complete responses to RAI 378 questions 6.2.1-83, 6.2.1-85, 6.2.1-87, and 6.2.1-91.

Question #	Response Date
RAI 378 — 06.02.01-82	August 12, 2010
RAI 378 — 06.02.01-83	September 9, 2010
RAI 378 — 06.02.01-84	August 12, 2010
RAI 378 — 06.02.01-85	September 9, 2010
RAI 378 — 06.02.01-86	August 31, 2010
RAI 378 — 06.02.01-87	September 9, 2010
RAI 378 — 06.02.01-88	August 12, 2010
RAI 378 — 06.02.01-89	August 12, 2010
RAI 378 — 06.02.01-90	August 12, 2010
RAI 378 — 06.02.01-91	September 9, 2010
RAI 378 — 06.02.01-92	August 31, 2010
RAI 378 — 06.02.01-93	August 31, 2010
RAI 378 — 06.02.02-45	October 27, 2010
RAI 378 — 06.02.03-6	August 12, 2010

Sincerely,

Martin (Marty) C. Bryan
U.S. EPR Design Certification Licensing Manager
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Martin.Bryan.ext@areva.com

From: BRYAN Martin (EXT)
Sent: Thursday, July 08, 2010 1:50 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. 378, Supplement 1, FSAR Ch. 6

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 15 questions of RAI 378 on May 24, 2010. To provide an opportunity to interact with the NRC on the response, a revised schedule is provided below for providing technically correct and complete responses to RAI 378 questions 6.2.01-83, 6.2.1-85, 6.2.1-87, 6.2.1-91, 6.2.2-45, and 6.2.3.06.

Question #	Response Date
RAI 378 — 06.02.01-82	August 12, 2010
RAI 378 — 06.02.01-83	August 5, 2010
RAI 378 — 06.02.01-84	August 12, 2010
RAI 378 — 06.02.01-85	August 5, 2010
RAI 378 — 06.02.01-86	August 31, 2010
RAI 378 — 06.02.01-87	August 5, 2010
RAI 378 — 06.02.01-88	August 12, 2010
RAI 378 — 06.02.01-89	August 12, 2010
RAI 378 — 06.02.01-90	August 12, 2010
RAI 378 — 06.02.01-91	August 5, 2010
RAI 378 — 06.02.01-92	August 31, 2010
RAI 378 — 06.02.01-93	August 31, 2010
RAI 378 — 06.02.02-45	October 27, 2010
RAI 378 — 06.02.03-6	August 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 (EXT)
Sent: Monday, May 24, 2010 5:50 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. 378, FSAR Ch. 6

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 378 Response US EPR DC.pdf" provides a technically correct and complete response to 1 of the 15 questions.

The following table indicates the respective pages in the response document, "RAI 378 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 378 — 06.02.01-82	2	2
RAI 378 — 06.02.01-83	3	3
RAI 378 — 06.02.01-84	4	4
RAI 378 — 06.02.01-85	5	5
RAI 378 — 06.02.01-86	6	6
RAI 378 — 06.02.01-87	7	7
RAI 378 — 06.02.01-88	8	8
RAI 378 — 06.02.01-89	9	9
RAI 378 — 06.02.01-90	10	10
RAI 378 — 06.02.01-91	11	11
RAI 378 — 06.02.01-92	12	12
RAI 378 — 06.02.01-93	13	13
RAI 378 — 06.02.02-45	14	14
RAI 378 — 06.02.02-46	15	16
RAI 378 — 06.02.03-6	17	17

A complete answer is not provided for 14 of the 15 questions. The schedule for a technically correct and complete response to these questions is provided below.

Question #	Response Date
RAI 378 — 06.02.01-82	August 12, 2010
RAI 378 — 06.02.01-83	July 8, 2010
RAI 378 — 06.02.01-84	August 12, 2010
RAI 378 — 06.02.01-85	July 8, 2010
RAI 378 — 06.02.01-86	August 31, 2010
RAI 378 — 06.02.01-87	July 8, 2010
RAI 378 — 06.02.01-88	August 12, 2010
RAI 378 — 06.02.01-89	August 12, 2010
RAI 378 — 06.02.01-90	August 12, 2010
RAI 378 — 06.02.01-91	July 8, 2010
RAI 378 — 06.02.01-92	August 31, 2010
RAI 378 — 06.02.01-93	August 31, 2010
RAI 378 — 06.02.02-45	July 8, 2010
RAI 378 — 06.02.03-6	July 14, 2010

Sincerely,

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 U.S. EPR Design Certification Licensing Manager
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From: Tesfaye, Getachew [mailto:Getachew.Tesfaye@nrc.gov]

Sent: Friday, April 23, 2010 9:41 AM

To: ZZ-DL-A-USEPR-DL

Cc: Jensen, Walton; Peng, Shie-Jeng; Hayes(NRO), Michelle; Ashley, Clinton; Jackson, Christopher; McKirgan, John; Carneal, Jason; Colaccino, Joseph; ArevaEPRDCPEm Resource

Subject: U.S. EPR Design Certification Application RAI No. 378 (4409,4513,4490), FSAR Ch. 6

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on March 17, 2010, and discussed with your staff on April 13 and 16, 2010. Draft RAI Questions 06.02.01-87 and 06.02.01-89 were modified as a result of those discussions. 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: 2187

Mail Envelope Properties (BC417D9255991046A37DD56CF597DB71080C8B6F)

Subject: Response to U.S. EPR Design Certification Application RAI No. 378, Supplement 8, FSAR Ch. 6
Sent Date: 10/26/2010 3:16:07 PM
Received Date: 10/26/2010 3:16:12 PM
From: BRYAN Martin (EXTERNAL AREVA)

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

Recipients:

"DELANO Karen (AREVA)" <Karen.Delano@areva.com>
Tracking Status: None
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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
"Tesfaye, Getachew" <Getachew.Tesfaye@nrc.gov>
Tracking Status: None

Post Office: AUSLYNCMX02.adom.ad.corp

Files	Size	Date & Time
MESSAGE	19678	10/26/2010 3:16:12 PM
RAI 378 S8 Response-US EPR DC.pdf		66631

Options

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

Response to

**Request for Additional Information No. 378(4409, 4513, 4490), Revision 2,
Supplement 8**

4/23/2010

U. S. EPR Standard Design Certification

AREVA NP Inc.

Docket No. 52-020

SRP Section: 06.02.01 - Containment Functional Design

SRP Section: 06.02.02 - Containment Heat Removal Systems

SRP Section: 06.02.03 - Secondary Containment Functional Design

Application Section: 06.02.

**QUESTIONS for Containment and Ventilation Branch 1 (AP1000/EPR Projects)
(SPCV)**

Question 06.02.02-45:

During Feb 22-27, AREVA conducted US EPR retaining basket and strainer qualification testing at Alden Research Labs in Holden MA. The NRC staff audited the testing and developed this request for additional information related to thin bed testing.

Guidance indicates that it is acceptable in a thin-bed test to sequence the debris by adding 100 percent of the plant particulate load to the test flume and subsequently adding fibrous debris in incremental batches of an appropriate size to form a thin bed. Even if the plant has enough fiber to form a thick fibrous bed, the accumulation process should pass from zero accumulation to bed thicknesses greater than the typical thin-bed thickness incrementally to ensure that the peak head loss (...or level rise in a basket...) is determined.

A thin bed can be more challenging than thicker beds because a relatively small amount of fibrous debris captures a relatively large amount of particulate debris. For US EPR, the first screen encountered by the debris is the retaining basket. Therefore, the thin bed test should attempt to form a thin bed in the basket, by incremental addition of fibrous debris, to determine the peak level rise and possible basket overflow (bypass).

The completed thin-bed test used about 33% less fiber (first batch) than the full load test and resulted in a 70% increase in basket level. The baskets response during the thin bed test demonstrated that incremental fiber additions can have a significant impact on US EPR basket levels. However, the incremental fiber amounts used during the thin-bed tests appear non-conservative given that they were based on the total screen area in the test flume and not the screen area first encountered by the debris. Using the screen area first encountered by the debris indicates the first fiber batch addition amount may have been three times greater than what was needed to form a thin bed.

Justify the basis for selecting the total screen area as the basis for calculating the thin bed fiber batch amounts and justify that the completed thin bed test develops the worst case or limiting condition for strainer head loss.

Response to Question 06.02.02-45:

An additional test with an alternate method of testing for a thin bed on the strainer was added to the U.S. EPR strainer performance test plan. The revised thin bed test adds fibrous debris to the test apparatus in a more conservative manner. Between fiber batch additions (except between the first and second batches) the head loss across the basket and/or strainer will be allowed to stabilize prior to the next batch addition (at a minimum of two flume turnovers and once stabilization has occurred). Head loss stabilization will be determined based on real time experimental observation. The revised test plan and fiber debris additions are as follows:

- First Batch = 0.5 lbm: This debris is added between the test retaining basket and strainer. This addition is consistent with the U.S. EPR design basis test protocol.
- Second Batch: This is the amount of fiber required to uniformly cover the wetted portion of the retaining basket with a thin bed of fiber of certain thickness. For conservatism, this does not include the area of wetted structural members in the retaining basket.
- Third Batch: This is the same amount of fiber as the second batch unless there is a water level increase in the retaining basket of approximately one inch or more. If there is a water

level increase of one inch or more after the second batch, the third batch addition will resemble the method used to determine the fourth batch addition.

- Fourth Batch: Additional fiber will be introduced into the retaining basket as determined by the Test Engineer. These batch sizes will be based on the amount of fiber needed to form a uniform thin bed on the un-wetted retraining basket screen area
- Fiber will continue to be added in small batches until there is no more fiber or until basket overflow occurs. If basket overflow occurs, then the fiber additions will be determined by the amount of the fiber able to form a uniform thin bed on the available screen area of the strainer. The test may be terminated if there is a significant change in the measured strainer head loss.

The above considerations reflect the revised test plan used for the August 2010 strainer performance testing. The test plan is available for NRC audit.

FSAR Impact:

The U.S. EPR FSAR will not be changed as a result of this question.