

ArevaEPRDCDocsPEm Resource

From: WILLIFORD Dennis (AREVA) [Dennis.Williford@areva.com]
Sent: Wednesday, June 26, 2013 8:16 AM
To: Snyder, Amy
Cc: Miernicki, Michael; ANDERSON Katherine (EXTERNAL AREVA); DELANO Karen (AREVA); LEIGHLITER John (AREVA); ROMINE Judy (AREVA); RYAN Tom (AREVA)
Subject: Response to U.S. EPR Design Certification Application RAI No. 320, FSAR Ch 3, Supplement 8 (Part 9 of 9)
Attachments: RAI 320 Supplement 8 Response US EPR DC - PUBLIC_Part9of9.pdf

Amy,

Attached is Part 9 of 9 of the response to RAI No. 320, Question 03.07.02-63. Because the response file contains security-related sensitive information that should be withheld from public disclosure in accordance with 10 CFR 2.390, a public version is provided with the security-related sensitive information redacted. This email and attached file do not contain any security-related information.

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: WILLIFORD Dennis (RS/NB)
Sent: Wednesday, June 26, 2013 8:15 AM
To: Amy.Snyder@nrc.gov
Cc: Michael.Miernicki@nrc.gov; ANDERSON Katherine (External AREVA NP INC.); DELANO Karen (RS/NB); LEIGHLITER John (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 320, FSAR Ch 3, Supplement 8 (Part 8 of 9)

Amy,

Attached is Part 8 of 9 of the response to RAI No. 320, Question 03.07.02-63. Because the response file contains security-related sensitive information that should be withheld from public disclosure in accordance with 10 CFR 2.390, a public version is provided with the security-related sensitive information redacted. This email and attached file do not contain any security-related information.

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: WILLIFORD Dennis (RS/NB)
Sent: Wednesday, June 26, 2013 8:14 AM
To: Amy.Snyder@nrc.gov
Cc: Michael.Miernicki@nrc.gov; ANDERSON Katherine (External AREVA NP INC.); DELANO Karen (RS/NB); LEIGHLITER John (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 320, FSAR Ch 3, Supplement 8 (Part 7 of 9)

Amy,
Attached is Part 7 of 9 of the response to RAI No. 320, Question 03.07.02-63. Because the response file contains security-related sensitive information that should be withheld from public disclosure in accordance with 10 CFR 2.390, a public version is provided with the security-related sensitive information redacted. This email and attached file do not contain any security-related information.

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: WILLIFORD Dennis (RS/NB)
Sent: Wednesday, June 26, 2013 8:12 AM
To: Amy.Snyder@nrc.gov
Cc: Michael.Miernicki@nrc.gov; ANDERSON Katherine (External AREVA NP INC.); DELANO Karen (RS/NB); LEIGHLITER John (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 320, FSAR Ch 3, Supplement 8 (Part 6 of 9)

Amy,
Attached is Part 6 of 9 of the response to RAI No. 320, Question 03.07.02-63. Because the response file contains security-related sensitive information that should be withheld from public disclosure in accordance with 10 CFR 2.390, a public version is provided with the security-related sensitive information redacted. This email and attached file do not contain any security-related information.

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: WILLIFORD Dennis (RS/NB)
Sent: Wednesday, June 26, 2013 8:11 AM
To: Amy.Snyder@nrc.gov
Cc: Michael.Miernicki@nrc.gov; ANDERSON Katherine (External AREVA NP INC.); DELANO Karen (RS/NB); LEIGHLITER John (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 320, FSAR Ch 3, Supplement 8 (Part 5 of 9)

Amy,

Attached is Part 5 of 9 of the response to RAI No. 320, Question 03.07.02-63. Because the response file contains security-related sensitive information that should be withheld from public disclosure in accordance with 10 CFR 2.390, a public version is provided with the security-related sensitive information redacted. This email and attached file do not contain any security-related information.

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: WILLIFORD Dennis (RS/NB)
Sent: Wednesday, June 26, 2013 8:10 AM
To: Amy.Snyder@nrc.gov
Cc: Michael.Miernicki@nrc.gov; ANDERSON Katherine (External AREVA NP INC.); DELANO Karen (RS/NB); LEIGHLITER John (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 320, FSAR Ch 3, Supplement 8 (Part 4 of 9)

Amy,

Attached is Part 4 of 9 of the response to RAI No. 320, Question 03.07.02-63. Because the response file contains security-related sensitive information that should be withheld from public disclosure in accordance with 10 CFR 2.390, a public version is provided with the security-related sensitive information redacted. This email and attached file do not contain any security-related information.

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: WILLIFORD Dennis (RS/NB)
Sent: Wednesday, June 26, 2013 8:09 AM
To: Amy.Snyder@nrc.gov
Cc: Michael.Miernicki@nrc.gov; ANDERSON Katherine (External AREVA NP INC.); DELANO Karen (RS/NB); LEIGHLITER John (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 320, FSAR Ch 3, Supplement 8 (Part 3 of 9)

Amy,

Attached is Part 3 of 9 of the response to RAI No. 320, Question 03.07.02-63. Because the response file contains security-related sensitive information that should be withheld from public disclosure in accordance

with 10 CFR 2.390, a public version is provided with the security-related sensitive information redacted. This email and attached file do not contain any security-related information.

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: WILLIFORD Dennis (RS/NB)
Sent: Wednesday, June 26, 2013 8:06 AM
To: Amy.Snyder@nrc.gov
Cc: Michael.Miernicki@nrc.gov; ANDERSON Katherine (External AREVA NP INC.); DELANO Karen (RS/NB); LEIGHLITER John (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 320, FSAR Ch 3, Supplement 8 (Part 2 of 9)

Amy,

Attached is Part 2 of 9 of the response to RAI No. 320, Question 03.07.02-63. Because the response file contains security-related sensitive information that should be withheld from public disclosure in accordance with 10 CFR 2.390, a public version is provided with the security-related sensitive information redacted. This email and attached file do not contain any security-related information.

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: WILLIFORD Dennis (RS/NB)
Sent: Tuesday, June 25, 2013 3:33 PM
To: Amy.Snyder@nrc.gov
Cc: Michael.Miernicki@nrc.gov; ANDERSON Katherine (External AREVA NP INC.); DELANO Karen (RS/NB); LEIGHLITER John (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 320, FSAR Ch 3, Supplement 8 (Part 1 of 9)

Amy,

AREVA NP Inc. (AREVA NP) provided a schedule for a technically correct and complete response to RAI 320 on November 24, 2009. AREVA NP submitted Supplement 1 on June 21, 2010, to provide a revised schedule for responding to RAI 320. On August 23, 2010, AREVA NP submitted Supplement 2 to provide INTERIM responses to Question 03.07.02-63 and Question 03.07.03-37. AREVA NP submitted a revised schedule for Questions 03.07.02-63 and 03.07.03-37 in Supplements 3, 4 and 5 on January 12, 2011, February 24, 2011, and May 2, 2011 respectively. On June 22, 2011, AREVA NP submitted Supplement 6 to provide the technically correct and complete final responses to Questions

03.07.02-63 and Question 03.07.03-37. On April 26, 2013, AREVA NP submitted Supplement 7 to provide a schedule for a revised final response to Question 03.07.02-63.

The attached file, "RAI 320 Supplement 8 Response US EPR DC – PUBLIC Part 1 of 9.pdf" and the subsequent 8 emails, provide a technically correct and complete revised final response to Question 03.07.02-63, as committed. Appended to this file are affected pages of the U.S. EPR Final Safety Analysis Report in redline-strikeout format which support the response to RAI 320 Question 03.07.02-63. Because the response file contains security-related sensitive information that should be withheld from public disclosure in accordance with 10 CFR 2.390, a public version is provided with the security-related sensitive information redacted. This email and attached file do not contain any security-related information. An unredacted SUNSI version is provided via separate email transmittals.

The following table indicates the respective pages in the response document, "RAI 320 Supplement 8 Response US EPR DC – PUBLIC Part 1 of 9.PDF," that contain AREVA NP's final response to the subject question.

Question #	Start Page	End Page
RAI 320 — 03.07.02-63	2	4

This concludes the formal AREVA NP response to RAI 320, and there are no questions from this RAI for which AREVA NP has not provided responses.

Sincerely,

Dennis Williford, P.E.
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.

7207 IBM Drive, Mail Code CLT 2B
Charlotte, NC 28262
Phone: 704-805-2223
Email: Dennis.Williford@areva.com

From: WILLIFORD Dennis (RS/NB)
Sent: Friday, April 26, 2013 8:06 AM
To: Amy.Snyder@nrc.gov
Cc: Michael.Miernicki@nrc.gov; ANDERSON Katherine (External AREVA NP INC.); DELANO Karen (RS/NB); LEIGHLITER John (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 320, FSAR Ch 3, Supplement 7

Amy,

AREVA NP Inc. (AREVA NP) provided a schedule for a technically correct and complete response to RAI 320 on November 24, 2009. AREVA NP submitted Supplement 1 on June 21, 2010, to provide a revised schedule for responding to RAI 320. On August 23, 2010, AREVA NP submitted Supplement 2 to provide INTERIM responses to Question 03.07.02-63 and Question 03.07.03-37. AREVA NP submitted a revised schedule for Questions 03.07.02-63 and 03.07.03-37 in Supplements 3, 4 and 5 on January 12, 2011, February 24, 2011, and May 2, 2011 respectively. On June 22, 2011, AREVA NP submitted Supplement 6 to provide the technically correct and complete final responses to Questions 03.07.02-63 and Question 03.07.03-37.

Due to changes discussed with NRC, and based on the schedule communicated in letter NRC:12:072- Revised Closure Plan for U.S. EPR Civil/Structural Open Items sent on December 20, 2012, and letter NRC:13:012- Periodic Update to Closure Plans for Resolution of Open Items for U.S. EPR Design Certification Application sent on April 12, 2013, the response for Question 03.07.02-63 is being revised.

The schedule for a revised final response to Question 03.07.02-63 is provided below:

Question #	Final Response Date
RAI 320 — 03.07.02-63	June 28, 2013

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: WILLIFORD Dennis (RS/NB)
Sent: Thursday, June 23, 2011 11:47 AM
To: 'Tesfaye, Getachew'
Cc: BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB); CORNELL Veronica (External RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 320, FSAR Ch 3, Supplement 6

Getachew,

Attached is a copy of AREVA NP Inc. letter NRC:11:064 dated June 22, 2011 that transmits technically correct and complete final responses to RAI 320, Questions 03.07.02-63 and 03.07.03-37. Enclosures to this letter cannot be provided in this e-mail due to the large filesizes. The letter, when separated from the enclosures, does not contain any security-related sensitive information (SUNSI). Included in the enclosure to the letter are affected pages of the U.S. EPR Final Safety Analysis Report in redline-strikeout format which support the response to Questions 03.07.02-63 and 03.07.03-37. The final response to Question 03.07.02-63 includes a revision to U.S. EPR FSAR Section 2.5.

The final responses are being providing on compact disks (CDs) due to the large file size. AREVA NP believes the material contained in the enclosures to this letter to be security-related sensitive information (SUNSI) and requests it be withheld from public disclosure in accordance with 10 CFR 2.390(d). Enclosed with the letter on separate CDs are a SUNSI version and a public version with the SUNSI information redacted for the final response.

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

Question #	Start Page	End Page
RAI 320 — 03.07.02-63	2	3
RAI 320 — 03.07.03-37	4	4

This concludes the formal AREVA NP response to RAI 320, and there are no questions from this RAI for which AREVA NP has not provided responses.

Sincerely,

Dennis Williford, P.E.
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.
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: Monday, May 02, 2011 7:30 AM
To: Tesfaye, Getachew
Cc: CORNELL Veronica (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. 320, FSAR Ch 3, Supplement 5

Getachew,

AREVA NP Inc. (AREVA NP) provided a schedule for a technically correct and complete response to RAI 320 on November 24, 2009. AREVA NP submitted Supplement 1 on June 21, 2010, to provide a revised schedule for responding to RAI 320. On August 23, 2010, AREVA NP submitted Supplement 2 to provide INTERIM responses to Question 03.07.02-63 and Question 03.07.03-37. AREVA NP submitted a revised schedule for Questions 03.07.02-63 and 03.07.03-37 in Supplements 3 and 4 on January 12, 2011 and February 24, 2011, respectively.

Due to changes in the schedule for FSAR Sections 3.7 and 3.8 as discussed with NRC, the schedule for Question 03.07.02-63 and Question 03.07.03-37 is being revised.

The schedule for technically correct and complete FINAL responses is provided below:

Question #	Interim Response Date	Final Response Date
RAI 320 — 03.07.02-63	August 23, 2010 (Actual)	June 25, 2011
RAI 320 — 03.07.03-37	August 23, 2010 (Actual)	June 25, 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, February 24, 2011 4:21 PM
To: 'Tesfaye, Getachew'
Cc: BRYAN Martin (External RS/NB); BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); ROMINE Judy (RS/NB); CORNELL Veronica (External RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 320, FSAR Ch 3, Supplement 4

Getachew,

AREVA NP Inc. (AREVA NP) provided a schedule for a technically correct and complete response to RAI 320 on November 24, 2009. AREVA NP submitted Supplement 1 on June 21, 2010, to provide a revised schedule for responding to RAI 320. On August 23, 2010, AREVA NP submitted Supplement 2 to provide INTERIM responses to Question 03.07.02-63 and Question 03.07.03-37. On January 12, 2011, AREVA NP submitted Supplement 3 to provide a revised schedule for responding to Question 03.07.02-63 and Question 03.07.03-37.

The schedule for Question 03.07.02-63 and Question 03.07.03-37 is being revised to allow additional time for AREVA NP to interact with the NRC.

The schedule for technically correct and complete FINAL responses is provided below:

Question #	Interim Response Date	Final Response Date
RAI 320 — 03.07.02-63	August 23, 2010 (Actual)	May 26, 2011
RAI 320 — 03.07.03-37	August 23, 2010 (Actual)	May 26, 2011

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: Wednesday, January 12, 2011 6:09 PM

To: 'Tefaye, Getachew'

Cc: DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); CORNELL Veronica (External RS/NB)

Subject: Response to U.S. EPR Design Certification Application RAI No. 320, FSAR Ch 3, Supplement 3

Getachew,

AREVA NP Inc. (AREVA NP) provided a schedule for a technically correct and complete response to RAI 320 on November 24, 2009. AREVA NP submitted Supplement 1 on June 21, 2010, to provide a revised schedule for responding to RAI 320. On August 23, 2010, AREVA NP submitted Supplement 2 to provide INTERIM responses to Question 03.07.02-63 and Question 03.07.03-37.

The schedule for Question 03.07.02-63 and Question 03.07.03-37 is being revised to allow additional time for AREVA NP to interact with the NRC.

The schedule for technically correct and complete FINAL responses is provided below:

Question #	Interim Response Date	Final Response Date
RAI 320 — 03.07.02-63	August 23, 2010 (Actual)	February 25, 2011
RAI 320 — 03.07.03-37	August 23, 2010 (Actual)	February 25, 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: Monday, August 23, 2010 4:56 PM
To: 'Tesfaye, Getachew'
Cc: DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); CORNELL Veronica (External RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 320, FSAR Ch 3, Supplement 2, Part 2 of 2

Getachew,

Attached is part 2 of 2 for RAI 320 Supplement 2, which contains the remainder of the FSAR markups for responses to questions 3.7.2-63 and 3.7.3-37.

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: Monday, August 23, 2010 4:36 PM
To: 'Tesfaye, Getachew'
Cc: DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); CORNELL Veronica (External RS/NB)
Subject: Response to U.S. EPR Design Certification Application RAI No. 320, FSAR Ch 3, Supplement 2, Part 1 of 2

Getachew,

AREVA NP Inc. (AREVA NP) provided a schedule for a technically correct and complete response to RAI 320 on November 24, 2009. AREVA NP submitted Supplement 1 on June 21, 2010, to provide a revised schedule for responding to RAI 320.

The attached file, "RAI 320 Supplement 2 US EPR DC (Part 1 of 2) – INTERIM.pdf" and the file "RAI 320 Supplement 2 US EPR DC (Part 2 of 2) – INTERIM.pdf" in subsequent email, provide technically correct and complete INTERIM responses to Question 03.07.02-63 and Question 03.07.03-37, as committed.

The following table indicates the respective pages in the response document, "RAI 320 Supplement 2 US EPR DC (Part 1 of 2) – INTERIM.pdf," that contains AREVA NP's INTERIM response to Question 03.07.02-63 and Question 03.07.03-37.

Question #	Start Page	End Page
RAI 320 — 03.07.02-63	2	3
RAI 320 — 03.07.03-37	4	4

The schedule for technically correct and complete FINAL responses is unchanged and provided below:

Question #	Interim Response Date	Final Response Date
RAI 320 — 03.07.02-63	August 23, 2010 (Actual)	January 13, 2011
RAI 320 — 03.07.03-37	August 23, 2010 (Actual)	January 13, 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: Monday, June 21, 2010 7:09 PM
To: 'Tefsaye, Getachew'
Cc: DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); VAN NOY Mark (EXT); CORNELL Veronica (EXT)
Subject: Response to U.S. EPR Design Certification Application RAI No. 320, FSAR Ch 3, Supplement 1

Getachew,

AREVA NP Inc. (AREVA NP) provided a schedule for a technically correct and complete response to RAI No. 320 on November 24, 2009.

Based upon the civil/structural re-planning activities and revised RAI response schedule presented to the NRC during the June 9, 2010, Public Meeting, the schedule for Questions 03.07.02-63 and 03.07.03-37 has been changed.

Prior to submittal of the final RAI response, AREVA NP will provide an interim RAI response that includes:

- (1) a description of the technical work (e.g., methodology)
- (2) U.S. EPR FSAR revised pages, as applicable

The revised schedule for an interim response and the technically correct and complete response to these questions is provided below.

Question #	Interim Response Date	Final Response Date
RAI 320 — 03.07.02-63	August 23, 2010	January 13, 2011
RAI 320 — 03.07.03-37	August 23, 2010	January 13, 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: WELLS Russell D (AREVA NP INC)
Sent: Monday, November 30, 2009 10:15 AM
To: 'Getachew Tesfaye'; 'Michael Miernicki'
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. 320, FSAR Ch 3

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 320 Response US EPR DC.PDF" provides a schedule for a technically correct and complete response to the 2 questions.

The following table indicates the respective pages in the response document, "RAI 320 Response US EPR DC.PDF," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 320 — 03.07.02-63	2	2
RAI 320 — 03.07.03-37	3	3

A complete answer is not provided for 2 of the 2 questions. The schedule for a technically correct and complete response to these questions is provided below.

Question #	Response Date
RAI 320 — 03.07.02-63	June 21, 2010
RAI 320 — 03.07.03-37	June 21, 2010

Sincerely,

(Russ Wells on behalf of)

Ronda Pederson

ronda.pederson@areva.com

Licensing Manager, U.S. EPR Design Certification
New Plants Deployment

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: Friday, October 30, 2009 2:10 PM

To: ZZ-DL-A-USEPR-DL

Cc: Chakravorty, Manas; Hawkins, Kimberly; Miernicki, Michael; Patel, Jay; Colaccino, Joseph; ArevaEPRDCPEm Resource

Subject: U.S. EPR Design Certification Application RAI No. 320 (3881, 3880),FSAR Ch. 3

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on October 22, 2009, and on October 30, 2009, you informed us that the RAI is clear and no further clarification is needed. As a result, no change is made to the draft RAI. 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_Docs_Public
Email Number: 28

Mail Envelope Properties (554210743EFE354B8D5741BEB695E6561A6DE7)

Subject: Response to U.S. EPR Design Certification Application RAI No. 320, FSAR Ch 3, Supplement 8 (Part 9 of 9)
Sent Date: 6/26/2013 8:16:25 AM
Received Date: 6/26/2013 8:17:49 AM
From: WILLIFORD Dennis (AREVA)

Created By: Dennis.Williford@areva.com

Recipients:

"Miernicki, Michael" <Michael.Miernicki@nrc.gov>
Tracking Status: None
"ANDERSON Katherine (EXTERNAL AREVA)" <katherine.anderson.ext@areva.com>
Tracking Status: None
"DELANO Karen (AREVA)" <Karen.Delano@areva.com>
Tracking Status: None
"LEIGHLITER John (AREVA)" <John.Leighliter@areva.com>
Tracking Status: None
"ROMINE Judy (AREVA)" <Judy.Romine@areva.com>
Tracking Status: None
"RYAN Tom (AREVA)" <Tom.Ryan@areva.com>
Tracking Status: None
"Snyder, Amy" <Amy.Snyder@nrc.gov>
Tracking Status: None

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RAI 320 Supplement 8 Response US EPR DC - PUBLIC_Part9of9.pdf			5193270

Options

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

Figure 3.7.2-137—Location of Response Output Nodes – NI Common Basemat

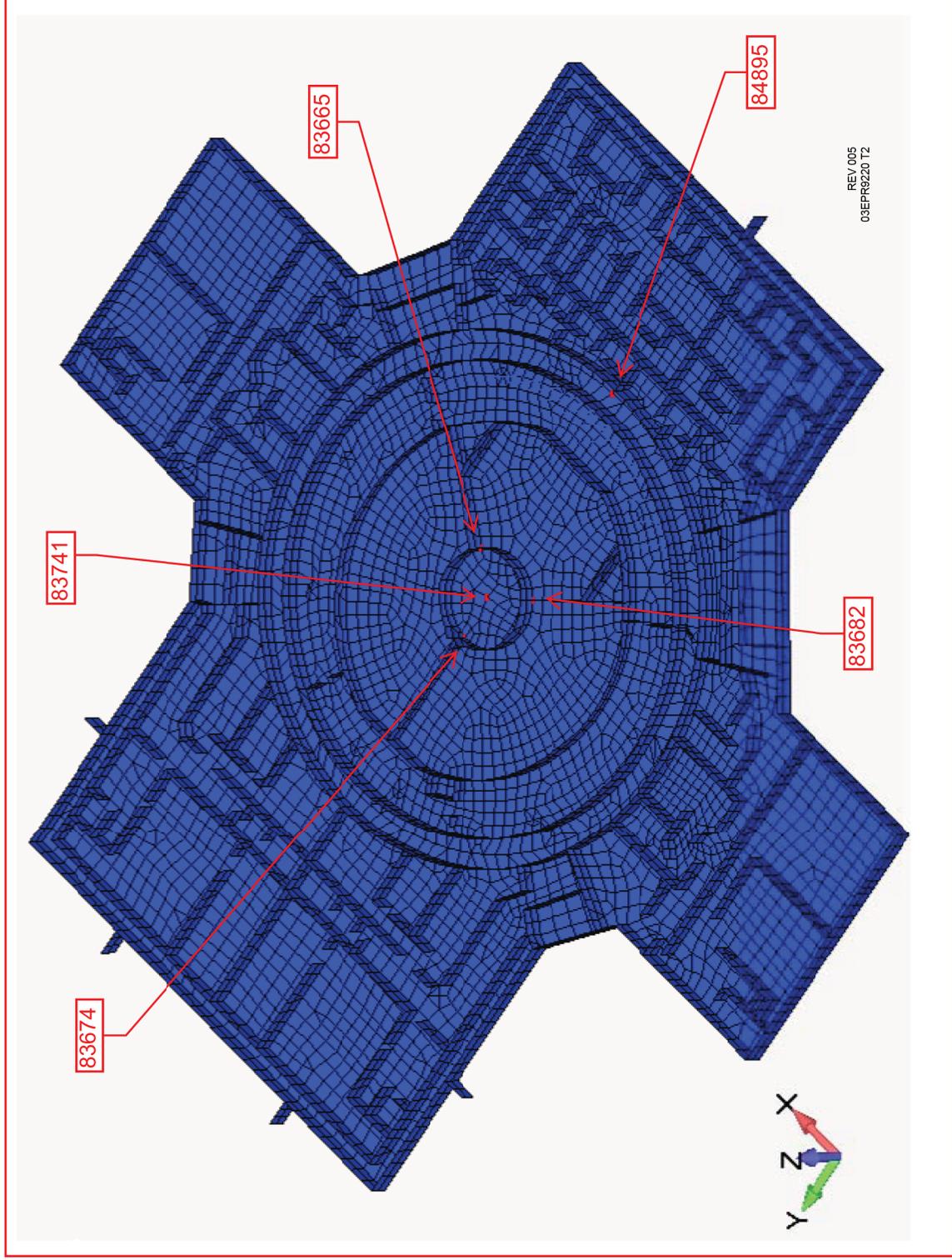




Figure 3.7.2-147—Location of Response Output Nodes, Fuel Building at
Elev. +12 ft, $1\text{-}\frac{3}{4}$ ~~$\frac{2}{3}$~~ in (3.7 m)

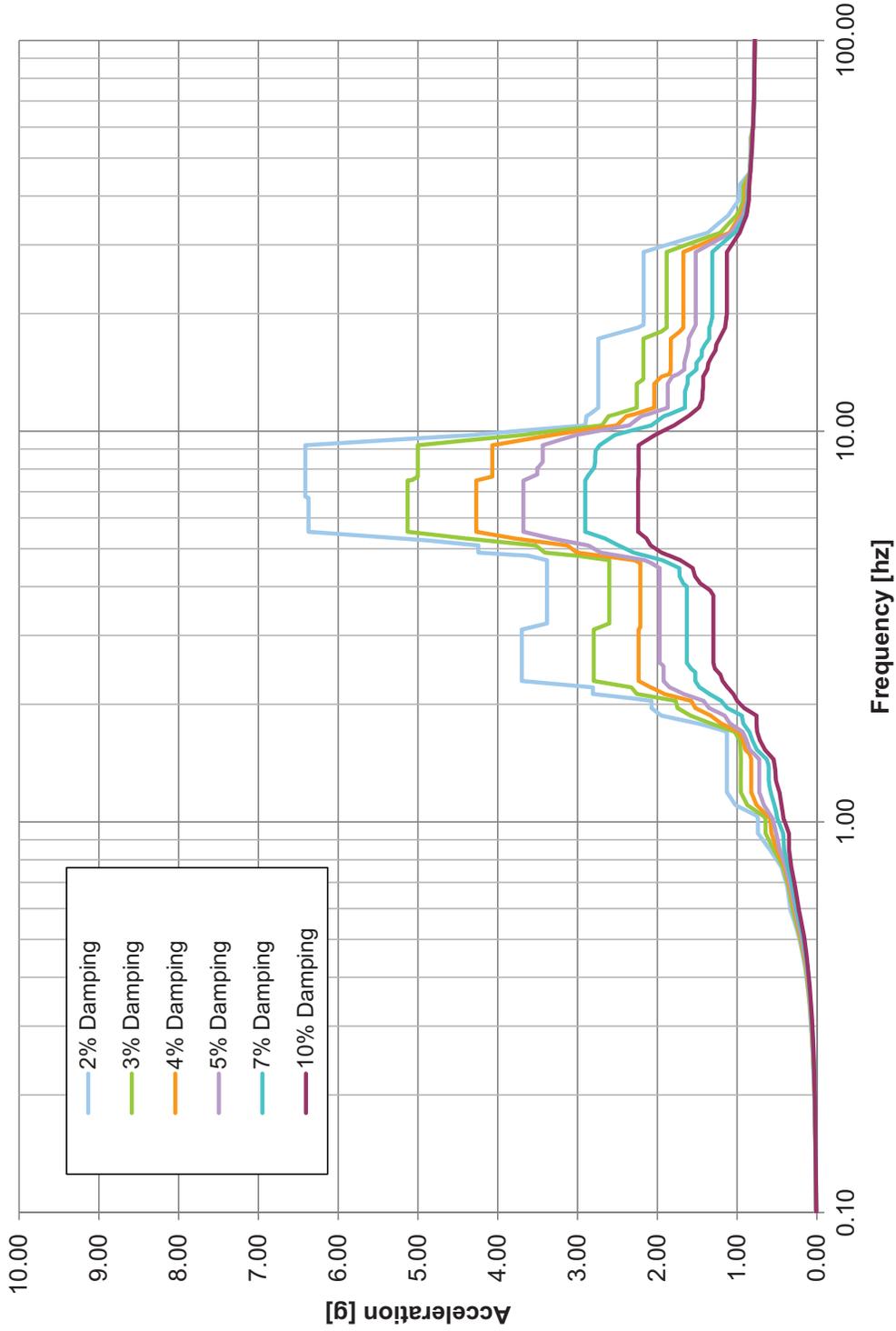


Figure 3.7.2-153—Not Used





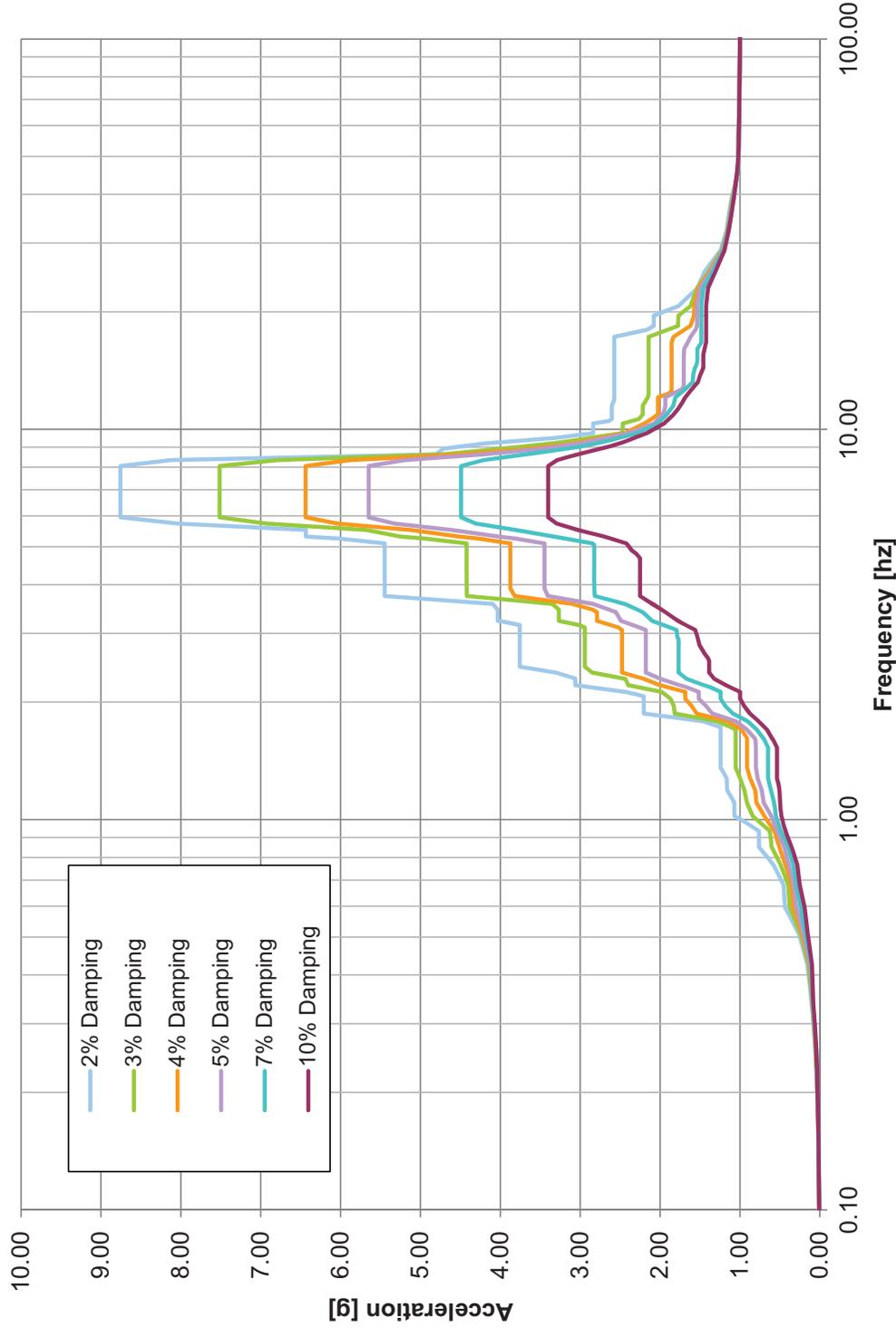
Figure 3.7.2-155—Spectrum Envelope of Fuel Building at Elev. +48 ft, 6-3/4 in (+14.8m) 2%, 3%, 4%, 5%, 7%, and 10% Damping, X-Direction



08EPR9310 T2



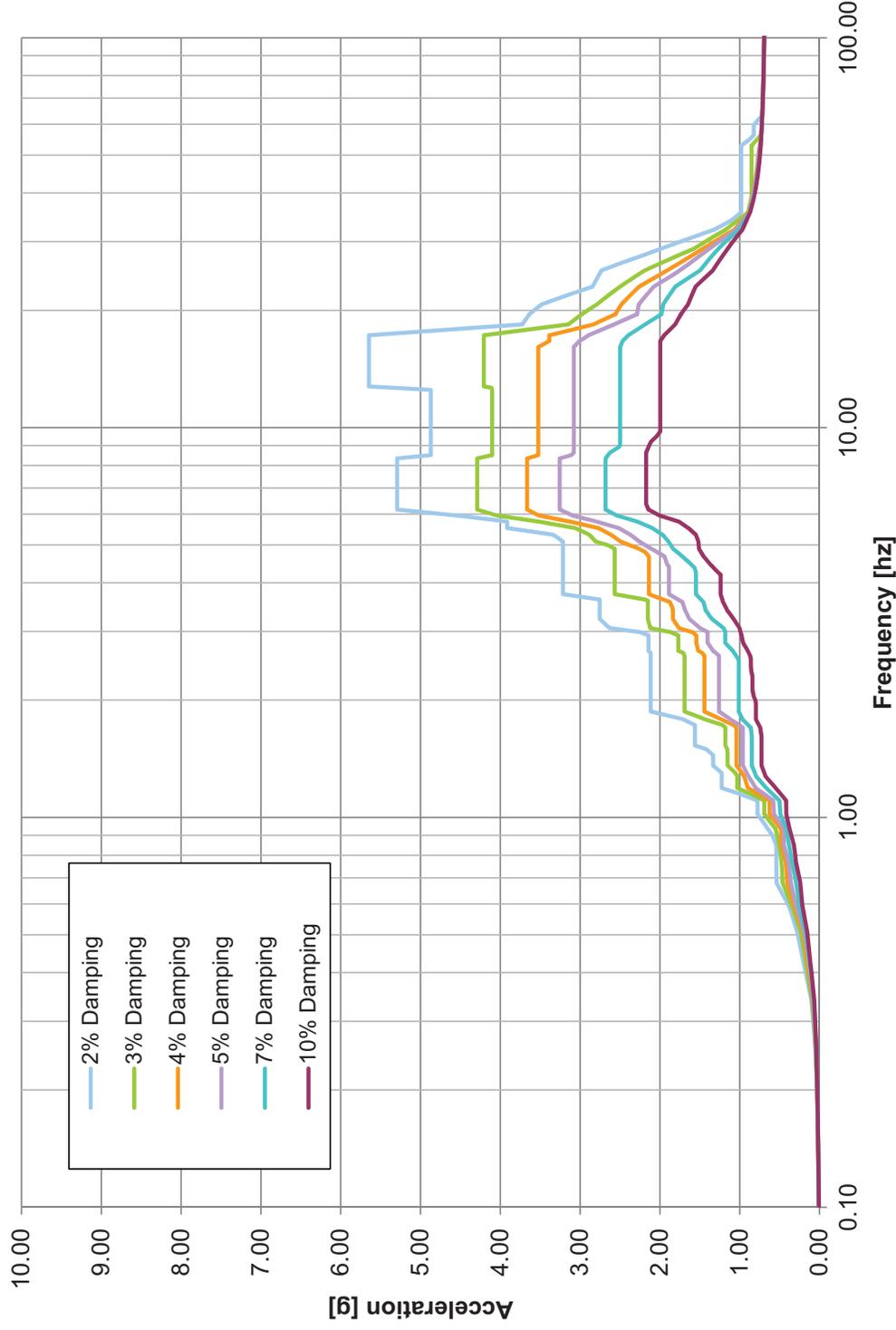
Figure 3.7.2-156—Spectrum Envelope of Fuel Building at Elev. +48 ft. 6-3/4 in (+14.8m) 2%, 3%, 4%, 5%, 7%, and 10% Damping, Y-Direction



08EPR0315 T2



Figure 3.7.2-157—Spectrum Envelope of Fuel Building at Elev. +48 ft, 6-3/4 in (+14.8m) 2%, 3%, 4%, 5%, 7%, and 10% Damping, Z-Direction



03EPR9320 T2



Figure 3.7.2-158—Soil Model Surface Response Spectra at Centers of Footprint of ESWB - 5% Damping, X-Direction

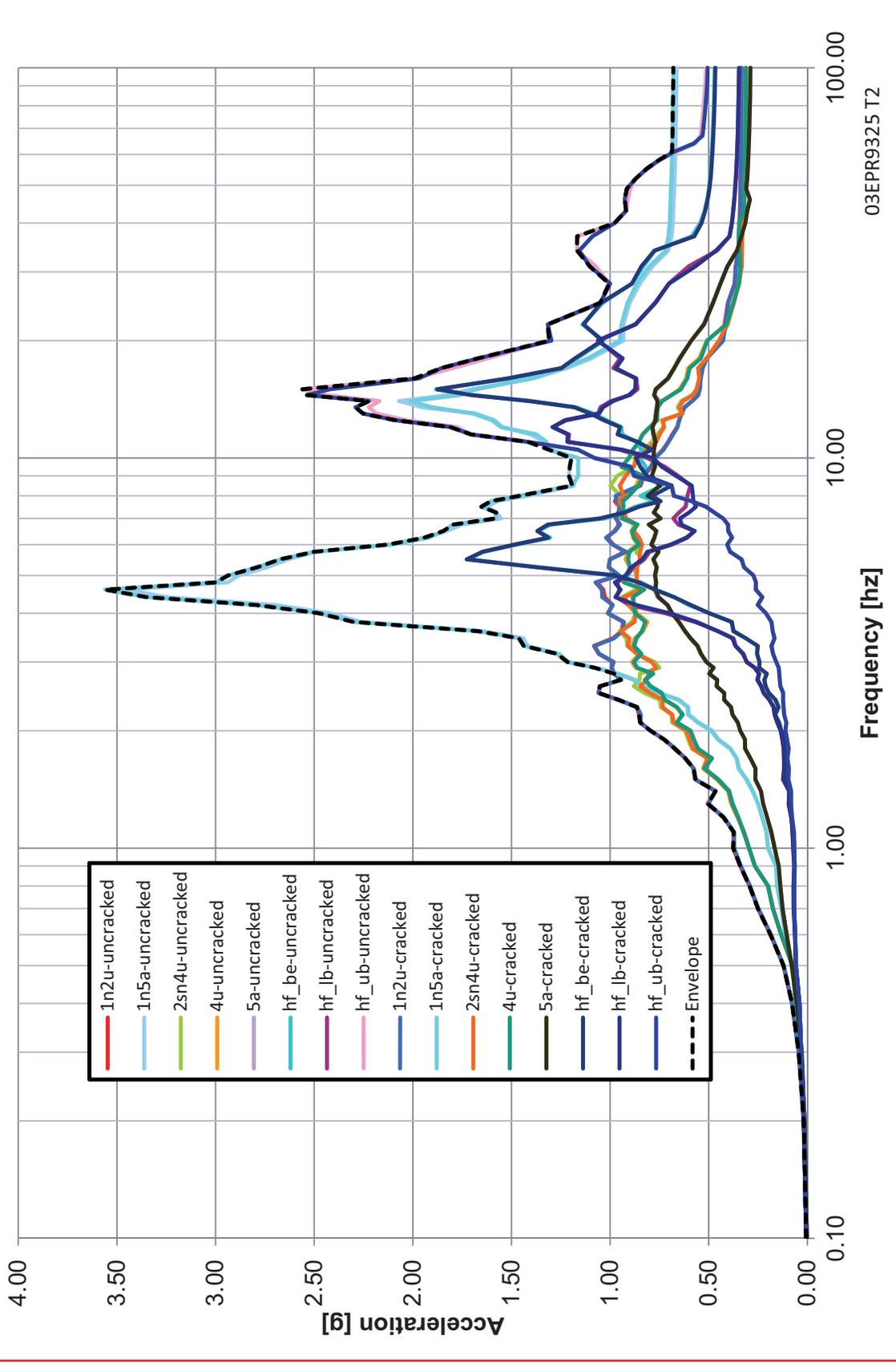




Figure 3.7.2-159—Soil Model Surface Response Spectra at Centers of Footprint of ESWB - 5% Damping, Y-Direction

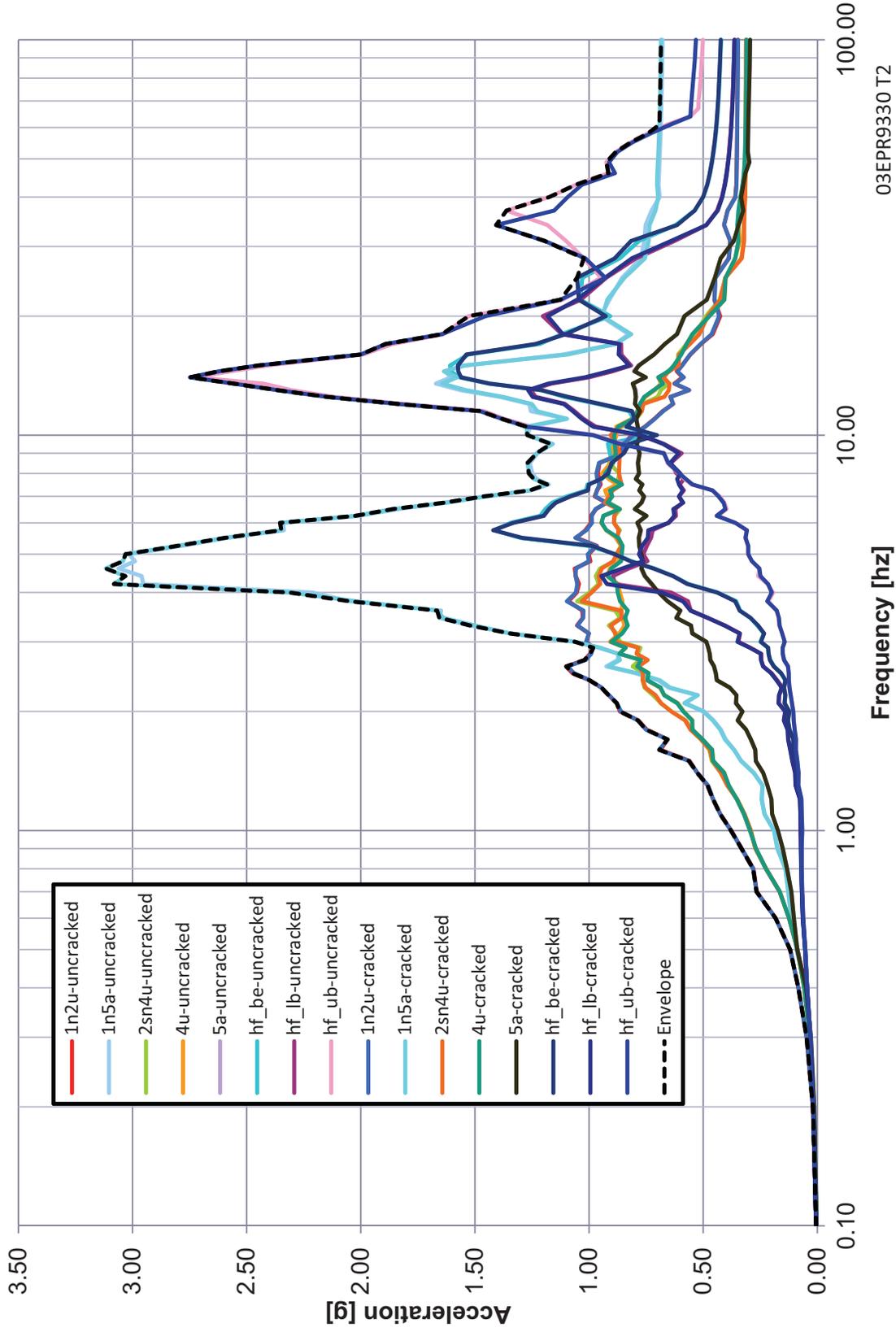
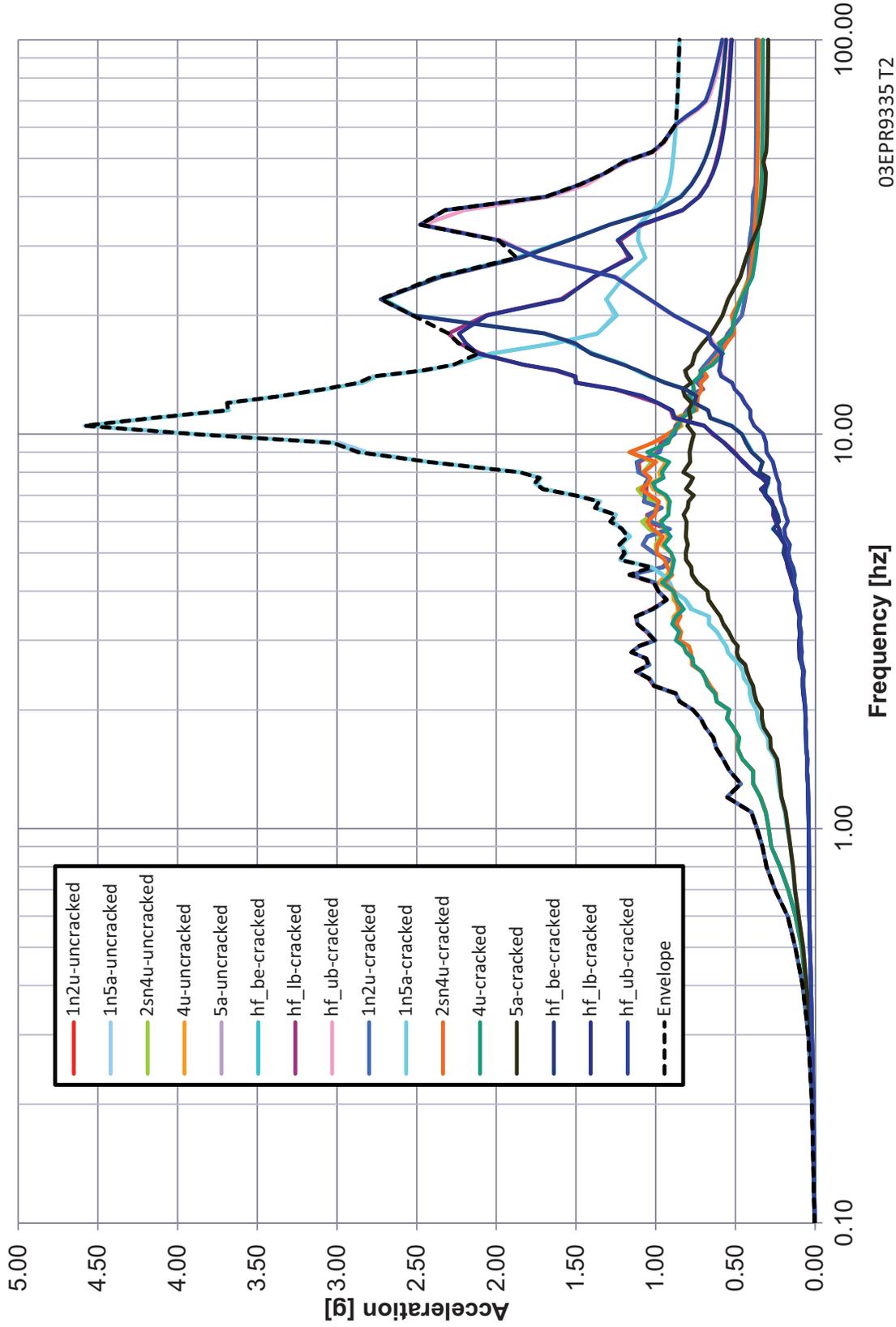




Figure 3.7.2-160—Soil Model Surface Response Spectra at Centers of Footprint of ESWB - 5% Damping, Z-Direction



03EPR9335 T2