

## ArevaEPRDCPEm Resource

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**From:** WILLIFORD Dennis (AREVA) [Dennis.Williford@areva.com]  
**Sent:** Tuesday, January 24, 2012 5:13 PM  
**To:** Tesfaye, Getachew  
**Cc:** BENNETT Kathy (AREVA); DELANO Karen (AREVA); ROMINE Judy (AREVA); RYAN Tom (AREVA); NOXON David (AREVA); Miernicki, Michael; Ford, Tanya  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM, Supplement 18

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to RAI No. 349 on February 17, 2010. AREVA NP submitted Supplement 1 to the response on March 31, 2010, providing an updated schedule for the responses. AREVA NP submitted Supplement 2 to the response on April 30, 2010, to provide technically correct and complete responses to 2 of the 6 questions and a revised schedule for the remaining 4 questions. AREVA NP submitted Supplement 3 to the response on May 24, 2010, Supplement 4 on June 14, 2010, Supplement 5 on July 20, 2010 and Supplement 6 on August 20, 2010 providing an updated schedule for the responses. AREVA NP submitted Supplement 7 to the response on September 24, 2010 providing technically correct and complete responses to 2 of the 4 remaining questions and a revised schedule for the 2 remaining questions. Supplement 8 sent on October 26, 2010, Supplement 9 on December 6, 2010, Supplement 10 on January 14, 2011, Supplement 11 on February 21, 2011, Supplement 12 on March 22, 2011, Supplement 13 on April 21, 2011, Supplement 14 on June 24, 2011, Supplement 15 on October 18, 2011, Supplement 16 on November 17, 2011, and Supplement 17 on December 13, 2011 provided a revised schedule for the two remaining questions.

A preliminary revised schedule for technically correct and complete responses to the remaining 2 questions is provided below. This schedule is being reevaluated and a new supplement with a revised schedule will be transmitted by February 21, 2012.

Question #	Response Date
RAI 349 — 19-334	February 21, 2012
RAI 349 — 19-335	February 21, 2012

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](mailto:Dennis.Williford@areva.com)

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**From:** WILLIFORD Dennis (RS/NB)  
**Sent:** Tuesday, December 13, 2011 4:37 PM  
**To:** Getachew.Tesfaye@nrc.gov  
**Cc:** BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB); NOXON David (RS/NB)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM, Supplement 17

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to RAI No. 349 on February 17, 2010. AREVA NP submitted Supplement 1 to the response on March 31, 2010, providing an updated schedule for the responses. AREVA NP submitted Supplement 2 to the response on April 30, 2010, to provide technically correct and complete responses to 2 of the 6 questions and a revised schedule for the remaining 4 questions. AREVA NP submitted Supplement 3 to the response on May 24, 2010, Supplement 4 on June 14, 2010, Supplement 5 on July 20, 2010 and Supplement 6 on August 20, 2010 providing an updated schedule for the responses. AREVA NP submitted Supplement 7 to the response on September 24, 2010 providing technically correct and complete responses to 2 of the 4 remaining questions and a revised schedule for the 2 remaining questions. Supplement 8 sent on October 26, 2010, Supplement 9 on December 6, 2010, Supplement 10 on January 14, 2011, Supplement 11 on February 21, 2011, Supplement 12 on March 22, 2011, Supplement 13 on April 21, 2011, Supplement 14 on June 24, 2011, Supplement 15 on October 18, 2011, and Supplement 16 on November 17, 2011 provided a revised schedule for the two remaining questions.

A preliminary revised schedule for technically correct and complete responses to the remaining 2 questions is provided below. This schedule is being reevaluated and a new supplement with a revised schedule will be transmitted by January 25, 2012.

Question #	Response Date
RAI 349 — 19-334	January 25, 2012
RAI 349 — 19-335	January 25, 2012

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](mailto:Dennis.Williford@areva.com)

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**From:** WILLIFORD Dennis (RS/NB)  
**Sent:** Thursday, November 17, 2011 6:23 PM  
**To:** [Getachew.Tesfaye@nrc.gov](mailto:Getachew.Tesfaye@nrc.gov)  
**Cc:** 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. 349, FSAR Ch. 19 OPEN ITEM, Supplement 16

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to RAI No. 349 on February 17, 2010. AREVA NP submitted Supplement 1 to the response on March 31, 2010, providing an updated schedule for the responses. AREVA NP submitted Supplement 2 to the response on April 30, 2010, to provide technically correct and complete responses to 2 of the 6 questions and a revised schedule for the remaining 4 questions. AREVA NP submitted Supplement 3 to the response on May 24, 2010, Supplement 4 on June 14, 2010, Supplement 5 on July 20, 2010 and Supplement 6 on August 20, 2010 providing an updated schedule for the responses. AREVA NP submitted Supplement 7 to the response on September 24, 2010 providing technically correct and complete responses to 2 of the 4 remaining questions and a revised schedule for the 2 remaining questions. Supplement 8 sent on October 26, 2010, Supplement 9 on December 6, 2010, Supplement 10 on January 14, 2011, Supplement 11 on February 21, 2011, Supplement 12 on March 22, 2011, Supplement 13 on April 21, 2011, Supplement 14 on June 24, 2011, and Supplement 15 on October 18, 2011 provided a revised schedule for the two remaining questions.

A preliminary revised schedule for technically correct and complete responses to the remaining 2 questions is provided below. This schedule is being reevaluated and a new supplement with a revised schedule will be transmitted by December 14, 2011.

Question #	Response Date
RAI 349 — 19-334	December 14, 2011
RAI 349 — 19-335	December 14, 2011

Sincerely,

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

7207 IBM Drive, Mail Code CLT 2B

Charlotte, NC 28262

Phone: 704-805-2223

Email: [Dennis.Williford@areva.com](mailto:Dennis.Williford@areva.com)

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**From:** WILLIFORD Dennis (RS/NB)

**Sent:** Tuesday, October 18, 2011 4:57 PM

**To:** [Getachew.Tesfaye@nrc.gov](mailto:Getachew.Tesfaye@nrc.gov)

**Cc:** BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB); NOXON David (RS/NB)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM, Supplement 15

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to RAI No. 349 on February 17, 2010. AREVA NP submitted Supplement 1 to the response on March 31, 2010, providing an updated schedule for the responses. AREVA NP submitted Supplement 2 to the response on April 30, 2010, to provide technically correct and complete responses to 2 of the 6 questions and a revised schedule for the remaining 4 questions. AREVA NP submitted Supplement 3 to the response on May 24, 2010, Supplement 4 on June 14, 2010, Supplement 5 on July 20, 2010 and Supplement 6 on August 20, 2010 providing an updated schedule for the responses. AREVA NP submitted Supplement 7 to the response on September 24, 2010 providing technically correct and complete responses to 2 of the 4 remaining questions and a revised schedule for the 2 remaining questions. Supplement 8 on October 26, 2010, Supplement 9 on December 6, 2010, Supplement 10 on January 14, 2011, Supplement 11 on February 21, 2011, Supplement 12 on March 22, 2011, Supplement 13 on April 21, 2011, and Supplement 14 on June 24, 2011 provided revised schedules for the two remaining questions.

A preliminary revised schedule for technically correct and complete responses to the remaining 2 questions is provided below. This schedule is being reevaluated and a new supplement with a revised schedule will be transmitted by November 17, 2011.

Question #	Response Date
RAI 349 — 19-334	November 17, 2011
RAI 349 — 19-335	November 17, 2011

Sincerely,

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

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

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**From:** WILLIFORD Dennis (RS/NB)  
**Sent:** Friday, June 24, 2011 11:32 AM  
**To:** 'Tesfaye, Getachew'  
**Cc:** BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB); NOXON David (RS/NB)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM, Supplement 14

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to RAI No. 349 on February 17, 2010. AREVA NP submitted Supplement 1 to the response on March 31, 2010, providing an updated schedule for the responses. AREVA NP submitted Supplement 2 to the response on April 30, 2010, to provide technically correct and complete responses to 2 of the 6 questions and a revised schedule for the remaining 4 questions. AREVA NP submitted Supplement 3 to the response on May 24, 2010, Supplement 4 on June 14, 2010, Supplement 5 on July 20, 2010 and Supplement 6 on August 20, 2010 providing an updated schedule for the responses. AREVA NP submitted Supplement 7 to the response on September 24, 2010 providing technically correct and complete responses to 2 of the 4 remaining questions and a revised schedule for the 2 remaining questions. Supplement 8 on October 26, 2010, Supplement 9 on December 6, 2010, Supplement 10 on January 14, 2011, Supplement 11 on February 21, 2011, Supplement 12 on March 22, 2011, and Supplement 13 on April 21, 2011 provided revised schedules for the two remaining questions.

The schedule for providing technically correct and complete responses to the 2 remaining questions has been changed as provided below:

Question #	Response Date
RAI 349 — 19-334	October 19, 2011
RAI 349 — 19-335	October 19, 2011

Sincerely,

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

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

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**From:** WELLS Russell (RS/NB)  
**Sent:** Thursday, April 21, 2011 3:46 PM  
**To:** 'Tesfaye, Getachew'  
**Cc:** NOXON David (RS/NB); BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM, Supplement 13

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to RAI No. 349 on February 17, 2010. AREVA NP submitted Supplement 1 to the response on March 31, 2010, providing an

updated schedule for the responses. AREVA NP submitted Supplement 2 to the response on April 30, 2010, to provide technically correct and complete responses to 2 of the 6 questions and a revised schedule for the remaining 4 questions. AREVA NP submitted Supplement 3 to the response on May 24, 2010, Supplement 4 on June 14, 2010, Supplement 5 on July 20, 2010 and Supplement 6 on August 20, 2010 providing an updated schedule for the responses. AREVA NP submitted Supplement 7 to the response on September 24, 2010 providing technically correct and complete responses to 2 of the 4 remaining questions and a revised schedule for the 2 remaining questions. Supplement 8 on October 26, 2010, Supplement 9 on December 6, 2010, Supplement 10 on January 14, 2011, Supplement 11 on February 21, 2011, and Supplement 12 on March 22, 2011 provided revised schedules for the two remaining questions.

The schedule for the remaining two questions is being changed to allow more time for resolution of NRC comments. The revised schedule for technically correct and complete responses to the 2 remaining questions is provided below:

Question #	Response Date
RAI 349 — 19-334	June 24, 2011
RAI 349 — 19-335	June 24, 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)*

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**From:** WELLS Russell (RS/NB)

**Sent:** Tuesday, March 22, 2011 1:42 PM

**To:** 'Tesfaye, Getachew'

**Cc:** NOXON David (RS/NB); BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM, Supplement 12

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to RAI No. 349 on February 17, 2010. AREVA NP submitted Supplement 1 to the response on March 31, 2010, providing an updated schedule for the responses. AREVA NP submitted Supplement 2 to the response on April 30, 2010, to provide technically correct and complete responses to 2 of the 6 questions and a revised schedule for the remaining 4 questions. AREVA NP submitted Supplement 3 to the response on May 24, 2010, Supplement 4 on June 14, 2010, Supplement 5 on July 20, 2010 and Supplement 6 on August 20, 2010 providing an updated schedule for the responses. AREVA NP submitted Supplement 7 to the response on September 24, 2010 providing technically correct and complete responses to 2 of the 4 remaining questions and a revised schedule for the 2 remaining questions. Supplement 8 on October 26, 2010, Supplement 9 on December 6, 2010, Supplement 10 on January 14, 2011 and Supplement 11 on February 21, 2011 provided revised schedules for the two remaining questions.

The schedule for the remaining two questions is being changed to allow more time for resolution of NRC comments. The revised schedule for technically correct and complete responses to the 2 remaining questions is provided below:

Question #	Response Date
RAI 349 — 19-334	April 25, 2011
RAI 349 — 19-335	April 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](mailto:Russell.Wells@Areva.com)*

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**From:** BRYAN Martin (External RS/NB)

**Sent:** Monday, February 21, 2011 9:41 AM

**To:** Tesfaye, Getachew

**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); NOXON David (RS/NB); WELLS Russell (RS/NB)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM, Supplement 11

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to RAI No. 349 on February 17, 2010. AREVA NP submitted Supplement 1 to the response on March 31, 2010, providing an updated schedule for the responses. AREVA NP submitted Supplement 2 to the response on April 30, 2010, to provide technically correct and complete responses to 2 of the 6 questions and a revised schedule for the remaining 4 questions. AREVA NP submitted Supplement 3 to the response on May 24, 2010, Supplement 4 on June 14, 2010, Supplement 5 on July 20, 2010 and Supplement 6 on August 20, 2010 providing an updated schedule for the responses. AREVA NP submitted Supplement 7 to the response on September 24, 2010 providing technically correct and complete responses to 2 of the 4 remaining questions and a revised schedule for the 2 remaining questions. Supplement 8 on October 26, 2010, Supplement 9 on December 6, 2010 and Supplement 10 on January 14, 2011 provided revised schedules for the two remaining questions.

The schedule for the remaining two questions is being changed to allow more time for resolution of NRC comments. The revised schedule for technically correct and complete responses to the 2 remaining questions is provided below:

Question #	Response Date
RAI 349 — 19-334	March 23, 2011
RAI 349 — 19-335	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](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (External RS/NB)  
**Sent:** Friday, January 14, 2011 10:51 AM  
**To:** 'Tesfaye, Getachew'  
**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); NOXON David (RS/NB)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM, Supplement 10

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to RAI No. 349 on February 17, 2010. AREVA NP submitted Supplement 1 to the response on March 31, 2010, providing an updated schedule for the responses. AREVA NP submitted Supplement 2 to the response on April 30, 2010, to provide technically correct and complete responses to 2 of the 6 questions and a revised schedule for the remaining 4 questions. AREVA NP submitted Supplement 3 to the response on May 24, 2010, Supplement 4 on June 14, 2010, Supplement 5 on July 20, 2010 and Supplement 6 on August 20, 2010 providing an updated schedule for the responses. AREVA NP submitted Supplement 7 to the response on September 24, 2010 providing technically correct and complete responses to 2 of the 4 remaining questions and a revised schedule for the 2 remaining questions. Supplement 8 on October 26, 2010 and Supplement 9 on December 6, 2010 provided revised schedules for the two remaining questions.

The schedule for the remaining two questions is being changed to allow more time for resolution of NRC comments. The revised schedule for technically correct and complete responses to the 2 remaining questions is provided below:

Question #	Response Date
RAI 349 — 19-334	February 21, 2011
RAI 349 — 19-335	February 21, 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](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (External RS/NB)  
**Sent:** Monday, December 06, 2010 11:53 AM  
**To:** 'Tesfaye, Getachew'  
**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); NOXON David (RS/NB); RYAN Tom



(RS/NB)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM, Supplement 9

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to RAI No. 349 on February 17, 2010. AREVA NP submitted Supplement 1 to the response on March 31, 2010, providing an updated schedule for the responses. AREVA NP submitted Supplement 2 to the response on April 30, 2010, to provide technically correct and complete responses to 2 of the 6 questions and a revised schedule for the remaining 4 questions. AREVA NP submitted Supplement 3 to the response on May 24, 2010, Supplement 4 on June 14, 2010, Supplement 5 on July 20, 2010 and Supplement 6 on August 20, 2010 providing an updated schedule for the responses. AREVA NP submitted Supplement 7 to the response on September 24, 2010 providing technically correct and complete responses to 2 of the 4 remaining questions and a revised schedule for the 2 remaining questions. Supplement 8 on October 26, 2010 provided a revised schedule for the two remaining questions.

The schedule for the remaining two questions is being changed to allow more time for resolution of NRC comments. The revised schedule for technically correct and complete responses to the 2 remaining questions is provided below:

Question #	Response Date
RAI 349 — 19-334	January 17, 2011
RAI 349 — 19-335	January 17, 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](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (External RS/NB)

**Sent:** Tuesday, October 26, 2010 7:30 AM

**To:** 'Tesfaye, Getachew'

**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); NOXON David (RS/NB)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM, Supplement 8

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to RAI No. 349 on February 17, 2010. AREVA NP submitted Supplement 1 to the response on March 31, 2010, providing an updated schedule for the responses. AREVA NP submitted Supplement 2 to the response on April 30, 2010, to provide technically correct and complete responses to 2 of the 6 questions and a revised schedule for the remaining 4 questions. AREVA NP submitted Supplement 3 to the response on May 24, 2010, Supplement 4 on June 14, 2010, Supplement 5 on July 20, 2010 and Supplement 6 on August 20, 2010 providing an updated schedule for the responses. AREVA NP submitted Supplement 7 to the response on September 24, 2010 providing technically correct and complete responses to 2 of the 4 remaining questions and a revised schedule for the 2 remaining questions



The schedule for the remaining two questions is being changed to allow more time for resolution of NRC comments. The revised schedule for technically correct and complete responses to the 2 remaining questions is provided below:

Question #	Response Date
RAI 349 — 19-334	December 6, 2010
RAI 349 — 19-335	December 6, 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](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (External RS/NB)

**Sent:** Thursday, September 23, 2010 8:40 PM

**To:** 'Tesfaye, Getachew'

**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); NOXON David (RS/NB)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM, Supplement 7

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to RAI No. 349 on February 17, 2010. AREVA NP submitted Supplement 1 to the response on March 31, 2010, providing an updated schedule for the responses. AREVA NP submitted Supplement 2 to the response on April 30, 2010, to provide technically correct and complete responses to 2 of the 6 questions and a revised schedule for the remaining 4 questions. AREVA NP submitted Supplement 3 to the response on May 24, 2010, Supplement 4 on June 14, 2010, Supplement 5 on July 20, 2010 and Supplement 6 on August 20, 2010 providing an updated schedule for the responses.

Proprietary and Non-proprietary versions of the response to RAI 349, Supplement 7 are provided via letter NRC 10:87. 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, that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 349 — 19-332	2	57
RAI 349 — 19-333	58	65

The schedule for technically correct and complete responses to the 2 remaining questions has been changed and is provided below:

RAI 349 — 19-334	October 27, 2010
RAI 349 — 19-335	October 27, 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](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (External RS/NB)  
**Sent:** Friday, August 20, 2010 12:34 PM  
**To:** 'Tefaye, Getachew'  
**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); NOXON David (RS/NB)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM, Supplement 6

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to RAI No. 349 on February 17, 2010. AREVA NP submitted Supplement 1 to the response on March 31, 2010, providing an updated schedule for the responses. AREVA NP submitted Supplement 2 to the response on April 30, 2010, to provide technically correct and complete responses to 2 of the 6 questions and a revised schedule for the remaining 4 questions. AREVA NP submitted Supplement 3 to the response on May 24, 2010, Supplement 4 on June 14, 2010, and Supplement 5 on July 20, 2010 providing an updated schedule for the responses. AREVA NP Inc. provided draft responses for the four remaining questions on June 14, 2010.

The schedule for the four remaining questions is being revised to allow more time to interact with the NRC on review of the draft responses.

The schedule for technically correct and complete responses to the 4 remaining questions has been changed and is provided below:

Question #	Response Date
RAI 349 — 19-332	September 23, 2010
RAI 349 — 19-333	September 23, 2010
RAI 349 — 19-334	September 23, 2010
RAI 349 — 19-335	September 23, 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](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (EXT)  
**Sent:** Tuesday, July 20, 2010 4:45 PM  
**To:** 'Tefaye, Getachew'  
**Cc:** DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC);

NOXON David B (AREVA NP INC)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM, Supplement 5

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to RAI No. 349 on February 17, 2010. AREVA NP submitted Supplement 1 to the response on March 31, 2010, providing an updated schedule for the responses. AREVA NP submitted Supplement 2 to the response on April 30, 2010, to provide technically correct and complete responses to 2 of the 6 questions and a revised schedule for the remaining 4 questions. AREVA NP submitted Supplement 3 to the response on May 24, 2010, and Supplement 4 on June 14, 2010, providing an updated schedule for the responses. AREVA NP Inc. provided draft responses to the for the four remaining questions on June 14, 2010. Let me know if these responses can be submitted as final.

The schedule for the four remaining questions is being revised to allow more time for NRC review of the draft responses.

The schedule for technically correct and complete responses to the 4 remaining questions has been changed and is provided below:

Question #	Response Date
RAI 349 — 19-332	August 23, 2010
RAI 349 — 19-333	August 23, 2010
RAI 349 — 19-334	August 23, 2010
RAI 349 — 19-335	August 23, 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](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (EXT)

**Sent:** Monday, June 14, 2010 3:41 PM

**To:** 'Tesfaye, Getachew'

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

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM, Supplement 4

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to RAI No. 349 on February 17, 2010. AREVA NP submitted Supplement 1 to the response on March 31, 2010, providing an updated schedule for the responses. AREVA NP submitted Supplement 2 to the response on April 30, 2010, to provide technically correct and complete responses to 2 of the 6 questions and a revised schedule for the remaining 4 questions. AREVA NP submitted Supplement 3 to the response on May 24, 2010, providing an updated schedule for the responses.

The schedule for the four remaining questions is being revised to allow time to interact with the NRC on the responses.

The schedule for technically correct and complete responses to the 4 remaining questions has been changed and is provided below:

Question #	Response Date
RAI 349 — 19-332	July 21, 2010
RAI 349 — 19-333	July 21, 2010
RAI 349 — 19-334	July 21, 2010
RAI 349 — 19-335	July 21, 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](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (EXT)  
**Sent:** Monday, May 24, 2010 4:36 PM  
**To:** 'Tsfaye, Getachew'  
**Cc:** DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); NOXON David B (AREVA NP INC)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM, Supplement 3

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to RAI No. 349 on February 17, 2010. AREVA NP submitted Supplement 1 to the response on March 31, 2010, providing updated schedule for the responses. AREVA NP submitted Supplement 2 to the response on April 30, 2010, to provide technically correct and complete responses to 2 of the 6 questions and a revised schedule for the remaining 4 questions.

As agreed with the NRC, the schedule for the four remaining questions is being revised to allow time to discuss the proposed response with the NRC. A telecon was originally scheduled for May 19th to discuss the proposed responses but had to be rescheduled.

The schedule for technically correct and complete responses to the 4 remaining questions has been changed and is provided below:

Question #	Response Date
RAI 349 — 19-332	June 21, 2010
RAI 349 — 19-333	June 21, 2010
RAI 349 — 19-334	June 21, 2010
RAI 349 — 19-335	June 21, 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](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (EXT)  
**Sent:** Friday, April 30, 2010 4:21 PM  
**To:** 'Tesfaye, Getachew'  
**Cc:** DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); NOXON David B (AREVA NP INC)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM, Supplement 2

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to RAI No. 349 on February 17, 2010. AREVA NP submitted Supplement 1 to the response on March 31, 2010, providing updated schedule for the responses. The attached file, "RAI 349 Supplement 2 Response US EPR DC" provides technically correct and complete responses to 2 of the 6 questions, 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 349 Questions 19-330 and 19-331.

The following table indicates the respective pages in the response document, "RAI 349 Supplement 2 Response US EPR DC," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 349 — 19-330	2	3
RAI 349 — 19-331	4	10

As agreed with NRC, the schedule for Question 19-333 is being revised to address NRC comments during the review of the draft response.

The schedule for technically correct and complete responses to the 4 remaining questions has been changed and is provided below:

Question #	Response Date
RAI 349 — 19-332	May 24, 2010
<b>RAI 349 — 19-333</b>	<b>May 24, 2010</b>
RAI 349 — 19-334	May 24, 2010
RAI 349 — 19-335	May 24, 2010

Sincerely,

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

Tel: (434) 832-3016  
702 561-3528 cell  
[Martin.Bryan.ext@areva.com](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (EXT)  
**Sent:** Wednesday, March 31, 2010 3:56 PM  
**To:** 'Tefaye, Getachew'  
**Cc:** DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); NOXON David B (AREVA NP INC)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM, Supplement 1

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to RAI No. 349 on February 17, 2010.

The schedule for Questions 19-330 and 19-331 is being revised to April 30, 2010 to allow for an opportunity to discuss the responses with the NRC.

The schedule for technically correct and complete responses to the 6 questions has been changed and provided below:

Question #	Response Date
RAI 349 — 19-330	<b>April 30, 2010</b>
RAI 349 — 19-331	<b>April 30, 2010</b>
RAI 349 — 19-332	May 24, 2010
RAI 349 — 19-333	April 30, 2010
RAI 349 — 19-334	May 24, 2010
RAI 349 — 19-335	May 24, 2010

Sincerely,

Martin (Marty) C. Bryan  
Licensing Advisory Engineer  
AREVA NP Inc.  
Tel: (434) 832-3016  
[Martin.Bryan.ext@areva.com](mailto:Martin.Bryan.ext@areva.com)

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**From:** DUNCAN Leslie E (AREVA NP INC)  
**Sent:** Wednesday, February 17, 2010 3:15 PM  
**To:** 'Tefaye, Getachew'  
**Cc:** DELANO Karen V (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); ROMINE Judy (AREVA NP INC); NOXON David B (AREVA NP INC)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 349 Response US EPR DC.pdf," provides the schedule for technically correct and complete responses to these questions.

The following table indicates the respective pages in the response document, "RAI 349 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 349 — 19-330	2	2
RAI 349 — 19-331	3	3
RAI 349 — 19-332	4	5
RAI 349 — 19-333	6	6
RAI 349 — 19-334	7	7
RAI 349 — 19-335	8	8

The schedule for technically correct and complete responses to these questions is provided below.

Question #	Response Date
RAI 349 — 19-330	March 31, 2010
RAI 349 — 19-331	March 31, 2010
RAI 349 — 19-332	May 24, 2010
RAI 349 — 19-333	April 30, 2010
RAI 349 — 19-334	May 24, 2010
RAI 349 — 19-335	May 24, 2010

Sincerely,

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

---

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

**Sent:** Tuesday, January 26, 2010 3:33 PM

**To:** ZZ-DL-A-USEPR-DL

**Cc:** Phan, Hanh; Fuller, Edward; Clark, Theresa; Mrowca, Lynn; Chowdhury, Prosanta; Colaccino, Joseph; ArevaEPRDCPEm Resource

**Subject:** U.S. EPR Design Certification Application RAI No. 349 (4164, 4165), FSAR Ch. 19 OPEN ITEM

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on December 18, 2009, and discussed with your staff on January 19, 2010. Draft RAI Questions 19-333 and 19-335 were modified as a result of that discussion. The questions in this RAI are OPEN ITEMS in the safety evaluation report for Chapter 19 for Phases 2 and 3 reviews. As such, the schedule we have established for your application assumes technically correct and complete responses prior to the start of Phase 4 review. For any RAI that cannot be answered prior to the start of Phase 4 review, it is expected that a date for receipt of this information will be provided so that the staff can assess how this information will impact the published schedule.

Thanks,

Thanks,  
Getachew Tesfaye  
Sr. Project Manager  
NRO/DNRL/NARP



(301) 415-3361

**Hearing Identifier:** AREVA\_EPR\_DC\_RAIs  
**Email Number:** 3708

**Mail Envelope Properties** (2FBE1051AEB2E748A0F98DF9EEE5A5D4AA01D6)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 349, FSAR Ch. 19 OPEN ITEM, Supplement 18  
**Sent Date:** 1/24/2012 5:13:12 PM  
**Received Date:** 1/24/2012 5:13:20 PM  
**From:** WILLIFORD Dennis (AREVA)

**Created By:** Dennis.Williford@areva.com

**Recipients:**  
"BENNETT Kathy (AREVA)" <Kathy.Bennett@areva.com>  
Tracking Status: None  
"DELANO Karen (AREVA)" <Karen.Delano@areva.com>  
Tracking Status: None  
"ROMINE Judy (AREVA)" <Judy.Romine@areva.com>  
Tracking Status: None  
"RYAN Tom (AREVA)" <Tom.Ryan@areva.com>  
Tracking Status: None  
"NOXON David (AREVA)" <David.Noxon@areva.com>  
Tracking Status: None  
"Miernicki, Michael" <Michael.Miernicki@nrc.gov>  
Tracking Status: None  
"Ford, Tanya" <Tanya.Ford@nrc.gov>  
Tracking Status: None  
"Tsfaye, Getachew" <Getachew.Tsfaye@nrc.gov>  
Tracking Status: None

**Post Office:** auscharm02.adom.ad.corp

Files	Size	Date & Time
MESSAGE	37731	1/24/2012 5:13:20 PM

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