

**From:** WELLS Russell D (AREVA NP INC) [Russell.Wells@areva.com]  
**Sent:** Thursday, October 30, 2008 6:01 PM  
**To:** Getachew Tesfaye  
**Cc:** John Rycyna; 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. 34, Supplement 2, FSAR Ch 15 (Part 2 of 3)  
**Attachments:** RAI 34 Supplement 2 Response US EPR DC (Part 2 of 3).pdf

Getachew,  
Attached is "Response to U.S. EPR Design Certification Application RAI No. 34, Supplement 2, FSAR Ch 15 (Part 2 of 3)".

Sincerely,

(Russ Wells on behalf of)

*Ronda Pederson*

[ronda.pederson@areva.com](mailto: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

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**From:** WELLS Russell D (AREVA NP INC)  
**Sent:** Thursday, October 30, 2008 5:45 PM  
**To:** 'Getachew Tesfaye'  
**Cc:** 'John Rycyna'; 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. 34, Supplement 2, FSAR Ch 15 (Part 1 of 3)

Getachew,

AREVA NP Inc. provided responses to 21 of the 72 questions of RAI No. 34 on August 29, 2008. Supplement 1 response to RAI No. 22 was sent on September 24, 2008 to address an additional 31 of the 72 questions.

The response file, "RAI 34 Supplement 2 Response US EPR DC.pdf," provides technically correct and complete responses to the remaining 20 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 34 Questions 15-1, 15-2, 15-

3, 15-4, 15-5, 15.02.01-15.02.05-1, 15.03.03-15.03.04-1, 15.03.03-15.03.04-4, 15.03.03-15.03.04-5, 15.03.03-15.03.04-7, 15.03.03-15.03.04-8 and 15.06.03-3.

The following table indicates the respective pages in the response document, "RAI 34 Supplement 2 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 34—15-1	2	2
RAI 34—15-2	3	3
RAI 34—15-3	4	4
RAI 34—15-4	5	5
RAI 34—15-5	6	6
RAI 34—15-6	7	8
RAI 34—15-7	9	9
RAI 34—15.01.01-15.01.04-5	10	16
RAI 34—15.01.01-15.01.04-9	17	23
RAI 34—15.01.05-4	24	24
RAI 34—15.02.01-15.02.05-1	25	26
RAI 34—15.02.08-4	27	27
RAI 34—15.03.03-15.03.04-1	28	28
RAI 34—15.03.03-15.03.04-4	29	29
RAI 34—15.03.03-15.03.04-5	30	31
RAI 34—15.03.03-15.03.04-6	32	35
RAI 34—15.03.03-15.03.04-7	36	40
RAI 34—15.03.03-15.03.04-8	41	41
RAI 34—15.06.01-2	42	42
RAI 34—15.06.03-3	43	43

This concludes the formal AREVA NP response to RAI 34, and there are no questions from this RAI for which AREVA NP has not provided responses.

Sincerely,

(Russ Wells on behalf of)

*Ronda Pederson*

[ronda.pederson@areva.com](mailto:ronda.pederson@areva.com)

Licensing Manager, U.S. EPR Design Certification

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Phone: 434-832-3694

Cell: 434-841-8788

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**From:** Pederson Ronda M (AREVA NP INC)

**Sent:** Wednesday, September 24, 2008 6:26 PM

**To:** 'Getachew Tesfaye'

**Cc:** DUNCAN Leslie E (AREVA NP INC); DELANO Karen V (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); WELLS Russell D (AREVA NP INC); GUCWA Len T (EXT)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 34, FSAR Ch 15, Supplement 1

Getachew,

The proprietary and non-proprietary versions of the Supplement 1 response to RAI No. 34 are submitted via AREVA NP Inc. letter, "Response to U.S. EPR Design Certification Application RAI No. 34, Supplement No. 1" NRC 08:076, dated September 24, 2008. The enclosure to that letter provides technically correct and complete responses to 31 of the remaining 51 questions in RAI No. 34. An affidavit to support withholding of information from public disclosure, per 10CFR2.390(b), is provided as an enclosure to that letter.

The schedule for technically correct and complete responses to the remaining 20 questions in RAI No. 34 is provided below:

<b>Question #</b>	<b>Response Date</b>
RAI 34—15-1	October 30, 2008
RAI 34—15-2	October 30, 2008
RAI 34—15-3	October 30, 2008
RAI 34—15-4	October 30, 2008
RAI 34—15-5	October 30, 2008
RAI 34—15-6	October 30, 2008
RAI 34—15-7	October 30, 2008
RAI 34—15.01.01-15.01.04-5	October 30, 2008
RAI 34—15.01.01-15.01.04-9	October 30, 2008
RAI 34—15.01.05-4	October 30, 2008
RAI 34—15.02.01-15.02.05-1	October 30, 2008
RAI 34—15.02.08-4	October 30, 2008
RAI 34—15.03.03-15.03.04-1	October 30, 2008
RAI 34—15.03.03-15.03.04-4	October 30, 2008
RAI 34—15.03.03-15.03.04-5	October 30, 2008
RAI 34—15.03.03-15.03.04-6	October 30, 2008
RAI 34—15.03.03-15.03.04-7	October 30, 2008
RAI 34—15.03.03-15.03.04-8	October 30, 2008
RAI 34—15.06.01-2	October 30, 2008

Sincerely,

*Ronda Pederson*

[ronda.pederson@areva.com](mailto:ronda.pederson@areva.com)

Licensing Manager, U.S. EPR Design Certification  
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**From:** WELLS Russell D (AREVA NP INC)  
**Sent:** Friday, August 29, 2008 1:04 PM  
**To:** 'Getachew Tesfaye'  
**Cc:** 'John Rycyna'; Pederson Ronda M (AREVA NP INC); GUCWA Len T (EXT); DELANO Karen V (AREVA NP INC)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 34, FSAR Ch 15

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 34 Response US EPR DC.pdf" provides technically correct and complete responses to 21 of the 72 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 34 Question 15.01.01-15.01.04-7.

The following table provides the page(s) in the response document, "RAI 34 Response US EPR DC.pdf" containing the response to each question.

Question #	Start Page	End Page
RAI 34 — 15-1	2	2
RAI 34 — 15-2	3	3
RAI 34 — 15-3	4	4
RAI 34 — 15-4	5	5
RAI 34 — 15-5	6	6
RAI 34 — 15-6	7	7
RAI 34 — 15-7	8	8
RAI 34 — 15-8	9	9
RAI 34 — 15.01.01-15.01.04-1	10	10
RAI 34 — 15.01.01-15.01.04-2	11	11
RAI 34 — 15.01.01-15.01.04-3	12	12
RAI 34 — 15.01.01-15.01.04-4	13	13
RAI 34 — 15.01.01-15.01.04-5	14	14
RAI 34 — 15.01.01-15.01.04-6	15	15
RAI 34 — 15.01.01-15.01.04-7	16	16

RAI 34 — 15.01.01-15.01.04-8	17	17
RAI 34 — 15.01.01-15.01.04-9	18	18
RAI 34 — 15.01.01-15.01.04-10	19	20
RAI 34 — 15.01.01-15.01.04-11	21	21
RAI 34 — 15.01.01-15.01.04-12	22	22
RAI 34 — 15.01.01-15.01.04-13	23	23
RAI 34 — 15.01.05-1	24	24
RAI 34 — 15.01.01-2	25	25
RAI 34 — 15.01.01-3	26	26
RAI 34 — 15.01.01-4	27	27
RAI 34 — 15.01.01-5	28	28
RAI 34 — 15.01.01-6	29	30
RAI 34 — 15.01.01-7	31	31
RAI 34 — 15.01.01-8	32	32
RAI 34 — 15.01.01-9	33	33
RAI 34 — 15.01.01-10	34	34
RAI 34 — 15.01.01-11	35	35
RAI 34 — 15.01.01-12	36	36
RAI 34 — 15.02.01-15.02.05-1	37	37
RAI 34 — 15.02.01-15.02.05-2	38	38
RAI 34 — 15.02.01-15.02.05-3	39	39
RAI 34 — 15.02.01-15.02.05-4	40	40
RAI 34 — 15.02.01-15.02.05-5	41	41
RAI 34 — 15.02.01-15.02.05-6	42	42
RAI 34 — 15.02.01-15.02.05-7	43	43
RAI 34 — 15.02.01-15.02.05-8	44	44
RAI 34 — 15.02.06-1	45	45
RAI 34 — 15.02.07-1	46	46
RAI 34 — 15.02.08-1	47	47
RAI 34 — 15.02.08-2	48	48
RAI 34 — 15.02.08-3	49	49
RAI 34 — 15.02.08-4	50	50
RAI 34 — 15.02.08-5	51	51
RAI 34 — 15.02.08-6	52	52
RAI 34 — 15.02.08-7	53	53
RAI 34 — 15.02.08-8	54	54
RAI 34 — 15.02.08-9	55	61
RAI 34 — 15.02.08-10	62	62
RAI 34 — 15.02.08-11	63	69
RAI 34 — 15.02.08-12	70	72
RAI 34 — 15.02.08-13	73	75
RAI 34 — 15.02.08-14	76	76
RAI 34 — 15.03.03-15.03.04-1	77	77
RAI 34 — 15.03.03-15.03.04-2	78	78
RAI 34 — 15.03.03-15.03.04-3	79	79
RAI 34 — 15.03.03-15.03.04-4	80	80
RAI 34 — 15.03.03-15.03.04-5	81	81
RAI 34 — 15.03.03-15.03.04-6	82	82
RAI 34 — 15.03.03-15.03.04-7	83	83
RAI 34 — 15.03.03-15.03.04-8	84	84
RAI 34 — 15.06.01-1	85	85

RAI 34 — 15.06.01-2	86	86
RAI 34 — 15.06.01-3	87	87
RAI 34 — 15.06.03-1	88	88
RAI 34 — 15.06.03-2	89	89
RAI 34 — 15.06.03-3	90	90
RAI 34 — 15.06.03-4	91	91

A complete answer is not provided for 51 of the 72 questions. The schedule for a technically correct and complete response to this question is provided below.

<b>Question #</b>	<b>Response Date</b>
RAI 34 — 15-1	October 30, 2008
RAI 34 — 15-2	October 30, 2008
RAI 34 — 15-3	October 30, 2008
RAI 34 — 15-4	October 30, 2008
RAI 34 — 15-5	October 30, 2008
RAI 34 — 15-6	October 30, 2008
RAI 34 — 15-7	October 30, 2008
RAI 34 — 15-8	October 30, 2008
RAI 34 — 15.01.01-15.01.04-1	October 30, 2008
RAI 34 — 15.01.01-15.01.04-5	October 30, 2008
RAI 34 — 15.01.01-15.01.04-8	September 24, 2008
RAI 34 — 15.01.01-15.01.04-9	October 30, 2008
RAI 34 — 15.01.01-15.01.04-11	September 24, 2008
RAI 34 — 15.01.01-15.01.04-12	September 24, 2008
RAI 34 — 15.01.01-15.01.04-13	October 30, 2008
RAI 34 — 15.01.05-2	October 30, 2008
RAI 34 — 15.01.05-3	October 30, 2008
RAI 34 — 15.01.05-4	October 30, 2008
RAI 34 — 15.01.05-8	October 30, 2008
RAI 34 — 15.01.05-9	October 30, 2008
RAI 34 — 15.01.05-12	October 30, 2008
RAI 34 — 15.02.01-15.02.05-1	October 30, 2008
RAI 34 — 15.02.01-15.02.05-2	October 30, 2008
RAI 34 — 15.02.01-15.02.05-4	October 30, 2008
RAI 34 — 15.02.01-15.02.05-6	October 30, 2008
RAI 34 — 15.02.01-15.02.05-7	October 30, 2008
RAI 34 — 15.02.01-15.02.05-8	October 30, 2008
RAI 34 — 15.02.06-1	October 30, 2008
RAI 34 — 15.02.07-1	October 30, 2008
RAI 34 — 15.02.08-2	October 30, 2008
RAI 34 — 15.02.08-3	October 30, 2008
RAI 34 — 15.02.08-4	October 30, 2008
RAI 34 — 15.02.08-5	October 30, 2008
RAI 34 — 15.02.08-6	October 30, 2008
RAI 34 — 15.02.08-7	October 30, 2008
RAI 34 — 15.02.08-8	October 30, 2008
RAI 34 — 15.02.08-10	October 30, 2008
RAI 34 — 15.02.08-14	October 30, 2008
RAI 34 — 15.03.03-15.03.04-1	October 30, 2008

RAI 34 — 15.03.03-15.03.04-4	October 30, 2008
RAI 34 — 15.03.03-15.03.04-5	October 30, 2008
RAI 34 — 15.03.03-15.03.04-6	October 30, 2008
RAI 34 — 15.03.03-15.03.04-7	October 30, 2008
RAI 34 — 15.03.03-15.03.04-8	October 30, 2008
RAI 34 — 15.06.01-1	October 30, 2008
RAI 34 — 15.06.01-2	October 30, 2008
RAI 34 — 15.06.01-3	October 30, 2008
RAI 34 — 15.06.03-1	October 30, 2008
RAI 34 — 15.06.03-2	October 30, 2008
RAI 34 — 15.06.03-3	October 30, 2008
RAI 34 — 15.06.03-4	September 24, 2008

Sincerely,

(Russ Wells on behalf of)

*Ronda Pederson*

[ronda.pederson@areva.com](mailto:ronda.pederson@areva.com)

Licensing Manager, U.S. EPR Design Certification

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

**Sent:** Friday, August 01, 2008 6:55 PM

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

**Cc:** Chu-Yu Liang; Shanlai Lu; Joseph Donoghue; John McKirgan; Peter Hearn; Joseph Colaccino; John Rycyna

**Subject:** U.S. EPR Design Certification Application RAI No. 34, FSAR Ch 15

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on July 15, 2008, and discussed with your staff on July 31, 2008. Draft RAI Questions 15.05.01-15.05.02-3 and 15.05.01-15.05.02-4 were deleted as they were duplicates of RAI Questions 15.05.01-15.05.02-1 and 15.05.01-15.05.02-2 in RAI 29, otherwise no change was made to this RAI 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