

September, 30, 2013

APPLICANT: AREVA NP, Inc.

SUBJECT: SUMMARY OF MARCH 25, 2013, PUBLIC MEETING WITH AREVA, NP, INC., TO DISCUSS U.S. EPR DESIGN CERTIFICATION SEISMIC DESIGN REQUEST FOR ADDITIONAL INFORMATION RESPONSES

On March 25, 2013, a meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of AREVA, NP, Inc., at the AREVA office in Charlotte, NC. The purpose of the meeting was to discuss AREVA's advanced responses to several U.S. EPR seismic design requests for additional information (RAIs). A meeting agenda is provided as Enclosure 1. A list of attendees is provided as Enclosure 2.

A summary of the discussion of each of the advanced RAI responses is outlined below:

- RAI 370, Question 03.07.02-64 addresses nuclear auxiliary building (NAB) stability. To ensure an adequate margin of safety against a seismic interaction with the nuclear island (NI), AREVA has increased the seismic gap between the NI and NAB to 30 inches. This was done in response to the results of the NAB sliding analysis. The NRC staff stated that in demonstrating overturning stability, one of the challenges is to address the soil bearing demands from the analysis since site-specific allowable bearing capacities are not yet known. The NRC staff requested that AREVA provide additional information with its response to address overturning stability and to identify actions by the Combined License Application (COLA) that are needed to demonstrate site-specific stability.
- RAI 547, Question 03.07.02-78 addresses, in part, the NI basemat analysis. AREVA's discussion of the basemat analysis in the advanced RAI response describes how the loads were determined on the tendon gallery. This had been an open item (OI) from a previous audit.
- A discussion of the advanced response to RAI 370, Question 03.08.05-31, emergency power generation building (EPGB) and essential service water building stability (ESWB) analysis was deleted from the agenda at AREVA's request.
- RAI 370, Question 03.07.01-27, Supplement 23 addressed the revised seismic damping levels used for the ESWB stability analysis. The previous RAI response identified the use of OBE structural damping for all seismic analysis applications for the ESWB. The change identified in the Supplement 23 response was to use safe shutdown earthquake (SSE) structural damping for the ESWB stability analysis. Since this was consistent with Regulatory Guide (RG) 1.61, which allows the use of SSE damping to obtain seismic design loads, the staff finds this change acceptable.
- The NRC staff requested that AREVA assess the impact of recent changes to the seismic analysis of Seismic Category I (SC I) structures on subsequent analyses that utilize the SC I analysis input or use its results and update any associated RAI responses accordingly.

AREVA agreed to update their RAI responses listed above and submit them as final.

Members of the public were present at the meeting.

Please direct any inquiries concerning this meeting to Michael Miernicki at 301-415-2304, or Michael.Miernicki@nrc.gov.

/RA/

Michael J. Miernicki, Senior Project Manager
EPR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

Docket No.: 52-020

Enclosures: 1. Agenda
 2. List of Attendees

cc: See next page

AREVA agreed to update their RAI responses listed above and submit them as final.

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/RA/

Michael J. Miernicki, Senior Project Manager
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Docket No.: 52-020

- Enclosures: 1. Agenda
- 2. List of Attendees

cc: See next page

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NAME	MMiernicki	JMcLellan	JXu	MMiernicki
DATE	09/17/2013	09/27/2013	09/30/2013	09/30/2013

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AGENDA

MEETING WITH AREVA NP TO DISCUSS U.S. EPR SEISMIC DESIGN REQUEST FOR ADDITIONAL INFORMATION RESPONSES

March 25, 2013
1:00 P.M. to 5:00 P.M.
AREVA NP, Inc.
7027 IBM Drive
Charlotte, NC 28262

<u>Time</u>	<u>Topic</u>	<u>Led by</u>
1:00 P.M.	Introductory Remarks/Logistics	NRC/AREVA
1:10 P.M.	Background and Meeting Purpose	NRC
1:20 P.M.	Identification of changes to agenda and whether proprietary information will be introduced	NRC/AREVA
1:30 P.M.	Discussion of RAIs and Responses: RAI 370, Question 03.07.02-64, NAB III/ RAI 547, Question 03.07.02-78, NI Basemat RAI 376, Question 03.08.05-31, EPGB and ESWB stability analysis Discussion of other FSAR Section 3.7 RAIs	NRC/AREVA
4:50 P.M.	Opportunity for Public Comment*	NRC
5:00 P.M.	Adjourn	

** The public will be given an opportunity to comment at this point in the meeting.*

ENCLOSURE 1

**Public Meeting with AREVA NP Regarding U.S. EPR
Design Certification Seismic Design RAI Responses
March 25, 2013
Charlotte, North Carolina**



Name	Organization
Michael Miernicki	NRC
John Segala	NRC
Amy Snyder	NRC
Aejaz Ali	AREVA
Jim Xu	NRC
David Foster	Numark
Thomas Houston	Numark
Brian Loeske	AREVA
Victor Abayan	AREVA
Syed Rahman	AREVA
Ragu Sankaranarayanan	AREVA
Veronica Cornell	AREVA
Todd Oswald	AREVA
Dennis Williford	AREVA
Len Gucwa	AREVA
Tim Schmitt	AREVA
Nawar Alchaar	AREVA
Tom Ryan	AREVA
Sean Ton	MNES

Name	Organization
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Tobias Richter	AREVA
Henri Solorzano	AREVA
Kaz Sasahara	MNES
Takanori Ogata	MNES

DC AREVA - EPR Mailing List
(Revised 09/12/2013)

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Enclosure 4

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