

September 16, 2013

MEMORANDUM TO: John Segala, Chief
Licensing Branch 1
Division of New Reactor Licensing
Office of New Reactors

FROM: William (Billy) Gleaves, Sr. Project Manager /RA/
Licensing Branch 1
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: SUMMARY OF PUBLIC MEETING, JULY 8, 2013, WITH AREVA NP TO
DISCUSS U.S. EPR DESIGN CERTIFICATION CLOSURE OF OPEN
ITEMS ASSOCIATED WITH CHAPTER 6 AND CHAPTER 15 OF THE
APPLICATION

On Monday, July 8, 2013, the U.S. Nuclear Regulatory Commission (NRC) held a Category I public meeting with AREVA, NP, Inc., in the form of a conference call. The purpose of the call was to discuss the resolution of open items (OIs) in the safety evaluation for the U.S. EPR Design Certification. Those OIs are tracked by NRC as "requests for additional information" or RAIs. Those OIs are associated with RAIs 524, 493, and 573. The meeting notice is available through both the NRC website under public meetings and through the Agencywide Documents and Management System (ADAMS) at Accession No. ML13175A127. The meeting notice included the meeting agenda. This teleconference was attended by 11 AREVA representatives and 5 NRC staff. No members of the public joined the conference bridge or attended the meeting; therefore, there were no public comments. A list of the meeting attendees is included in Enclosure to this summary.

This public meeting was led by NRC Sr. Project Manager, Billy Gleaves, beginning at 3:00 p.m. ET. The NRC staff began the meeting by announcing the purpose of this part of the teleconference, by having all attendees introduce themselves, and how the public will participate. This teleconference was broken up into two logical parts based on expertise of the participants. The discussion beginning at 3 p.m. on RAI 524, Question 06.02.02-127 related to accident risk and estimates of containment accident pressure. The discussion related to plans AREVA has to do additional net positive suction head (NPSH) sensitivity analyses (as was discussed at last week's regulatory audit in Marlboro, MA). The NRC staff asked about the status of the three or four additional sensitivity analyses that were discussed in Marlboro. The NRC staff requested the sensitivity analyses be included in the final response to RAI 524. The NRC staff stated the response will not be adequate if the additional sensitivity analyses are excluded and the response should be delayed if necessary. The schedule for the final RAI response was July 15, 2013. The NRC staff's position on information to be included in the final RAI response is summarized as follows:

the RAI response must include the sensitivity analyses as was discussed in this teleconference and at the regulatory audit in Marlboro, MA; the RAI response must include a discussion on the suppression of steaming from the reactor core and the need for IRWST makeup water. In addition, AREVA agreed that a new RAI response schedule was needed.

At 3:45 p.m. ET, the teleconference subject changed to RAI 493 and RAI 573. The subject of RAI 493, Supplement 4, Question 15.06.05-106, is reactor core differential pressure under two phase flow conditions and to complete NRC feedback (started on June 6, 2013) regarding RAI 573, Question 15.06.05-116, on reactor core differential pressure necessary to overcome the flow resistance of any post-accident debris bed formed on the fuel assembly nozzles. AREVA indicated in Table 15.06.05-106-4 of Page 28 of 63 of the advanced RAI response, the steam momentum flux at 900 seconds is 0.43 psi. In AREVA's latest response to the RAI 573 regarding core DP acceptance criteria, the calculated two-phase acceleration pressure drop is about 0.05 PSI. The NRC staff would like to understand the difference between these two submittals.

AREVA agreed to provide information (a confirmatory calculation) into the AREVA electronic reading room that shows the calculations associated with these results and a summary regarding why these results, although different, are consistent. A schedule for this work will be provided later.

There was no schedule information provided for AREVA's resolution to these comments.

The conference call ended at 4:40 p.m.

Docket No.: 52-020

Enclosure:
List of Attendees

cc: See next page

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cc: See next page

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NAME	WGleaves	JMcLellan	ASnyder	JSegala
DATE	07/31/2013	07/25/2013	08/22/2013	09/16/2013

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**Public Meeting, July 08, 2013, with AREVA NP Inc.,
To Discuss U.S. EPR
Design Certification Technical Issues
3:00 p.m. – 5:00 p.m.
U.S. Nuclear Regulatory Commission**

Name	Organization
Clint Ashley	U.S. NRC/NRO
Hanh Phan	U.S. NRC/NRO
Billy Gleaves	U.S. NRC/NRO
Lynn Mwroca	U.S. NRC/NRO
Shanlai Lu	U.S. NRC/NRO
David Kowalski	AREVA NP
Calvin Ritchey	AREVA NP
Chris Molseed	AREVA NP
Gavin Henderson	AREVA NP
Len Gucwa	AREVA NP
Ogden Sawyer	AREVA NP
Stewart Jones	AREVA NP
George Wadkins	AREVA NP
Jerry Holm	AREVA NP
Gene Moore	AREVA NP
Lillian Schor	AREVA NP

Enclosure

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(Revised 07/25/2013)

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