

June 25, 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, MAY 30, 2013, WITH AREVA NP
TO DISCUSS U.S. EPR DESIGN CERTIFICATION CLOSURE OF
OPEN ITEM ASSOCIATED WITH ANTICIPATED TRANSIENTS
WITHOUT SCRAM (ATWS) RESOLUTION

On Wednesday, May 30, 2013, the U.S. Nuclear Regulatory Commission (NRC) held a Category I public meeting with AREVA, NP, Inc., at NRC headquarters building in Rockville, MD. The purpose of the meeting was to discuss the resolution of open items (OIs) in the safety evaluation (SE) for the U.S. EPR Design Certification. The meeting notice is available through both the NRC website under public meetings and through the Agencywide Documents and Management System (ADAMS) Accession No. ML13137A173. The meeting notice included the meeting agenda. This teleconference was attended by seven AREVA representatives, and seven NRC staff. No members of the public joined the conference bridge or attended the meeting. A list of the meeting attendees is included in Enclosure 1 to this summary.

This public meeting was led by NRC Sr. Project Manager, Billy Gleaves, beginning at 8:00 a.m. ET. The NRC staff began the meeting by announcing the purpose of the teleconference, by having all attendees introduce themselves, noting safety procedures, and the public process. There were no participants or public in attendance by telephone bridge and, therefore, no public comments were received.

Introductory remarks were made by Len Gucwa, of AREVA. This issue is currently tracked under NRC Request for Additional Information (RAI) 582, Question 15.08-1, "ATWS [anticipated transient without scram] Analysis." This RAI is currently classified by NRC staff as "draft" and has not yet been accepted by AREVA. The purpose of AREVA's presentation is to review the approach to responding to the RAI.

CONTACT: William (Billy) Gleaves, NRO/DNRL
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The NRC RAI addresses the issue that the ATWS analysis does not consider an increase in steam-flow event followed by a failure of the reactor protection system (PS). Therefore, the NRC staff could not conclude that the application met the requirements of 10 CFR 50.62(c). Following a discussion of the term, "conditions indicative of an ATWS," and how it was applied by AREVA in its application, AREVA stated that it will do the requested analysis to show compliance with the requirements. The public portion of the meeting closed at Slide 7 at 8:37a.m.

During the proprietary session, the NRC staff and AREVA discussed details of proprietary analyses done to support the U.S. EPR design. Design changes were made to limit the maximum feedwater flow. The analysis that AREVA will conduct includes how it will treat the four feedwater pumps (including the spare pump). AREVA noted that information on the excore instrumentation errors at the DAS trip power level could be found in its response to RAI 413, Question 07.08-38. The NRC staff requested that the analysis to be done by AREVA be a "best estimate" analysis that includes the failure of the PS and operation at elevated power levels until "conditions indicative of an ATWS" as proposed result in a DAS actuation. The analysis should include demonstrating specified acceptable fuel design limits (SAFDLs). The SAFDLs should include all important parameters including but not limited to departure from nucleate boiling ratio, linear power rate, and core temperatures, as appropriate.

The meeting ended at 10:55 a.m.

Docket No.: 52-020

Enclosures: 1. List of Attendees
2. Public Version of AREVA Presentation Slides
3. Proprietary Version of AREVA Presentation Slides

cc: See next page

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|--------|--------------|--------------|--------------|-------------|---------------------------|
| NAME | WGleaves | JMcLellan | JDonoghue | ASnyder | JSegala (M Miernicki for) |
| DATE | 06/10/2013 | 06/10/2013 | 06/17/2013 | 06/24/2013 | 06/25/2013 |

OFFICIAL RECORD



**Public Meeting, May 30, 2013, with AREVA NP Inc., To Discuss U.S.
EPR Design Certification Technical Issues
8:00 a.m. – 11:30 a.m.
U.S. Nuclear Regulatory Commission**

| Name | Organization |
|------------------|----------------------------------|
| Amy Snyder | U.S. NRC/NRO |
| Matt Thomas | U.S. NRC/NRO |
| Shanlai Lu | U.S. NRC/NRO |
| Billy Gleaves | U.S. NRC/NRO |
| John Budzynski | U.S. NRC/NRO |
| Jack Zhao | U.S. NRC/NRO |
| Ralph Landry | U.S. NRC/NRO |
| John Segala | U.S. NRC/NRO |
| Bob Weisman | U.S. NRC/OGC |
| Graydon Uyeda | AREVA NP |
| Stephen Burdick | AREVA NP Consultant Morgan Lewis |
| Shelby Small | AREVA NP |
| Keith Higar | AREVA NP |
| Len Gucwa | AREVA NP |
| Chris Molseed | AREVA NP |
| Douglas Brownson | AREVA NP |
| Brian Vance | AREVA NP |

Public Version of AREVA Presentation, "RAI 582 ATWS"

ML13151A441

Enclosure 2

Proprietary Version of AREVA Presentation, "RAI 582 ATWS"

ML13136A314

Enclosure 3

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cc:

(Revised 04/15/2013)

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