

April 27, 2015

MEMORANDUM TO: Anthony J. Mendiola, Chief  
Licensing Processes Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

FROM: Jonathan G. Rowley, Project Manager /RA/  
Licensing Processes Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF FEBRUARY 25, 2015, PARTIALLY CLOSED MEETING  
WITH INDUSTRY STAKEHOLDERS REGARDING THE BABCOCK  
AND WILCOX LOSS-OF-COOLANT ACCIDENT EVALUATION  
MODEL ANALYSIS

On February 25, 2015, a partially closed meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff, representatives of Babcock and Wilcox (B&W) plants, and AREVA Inc. (AREVA). The purpose of the meeting was to discuss NRC staff actions to verify safe plant operation and the industry (utilities and AREVA) plans to revise the B&W plant large break loss-of-coolant accident (LBLOCA) evaluation model to correct an error in accounting for fuel thermal conductivity degradation and to reanalyze the B&W plant-specific LBLOCA analyses to demonstrate continued compliance with Title 10 of the *Code of Federal Regulations* (10 CFR) 50.46 requirements.

Jeremy Dean (NRC) made opening remarks for the NRC and Tom Byrne (Duke Energy) made opening remarks for the utilities that operate B&W plants. Benjamin Parks (NRC) led the NRC presentation during the open portion of the meeting, which provided the background on the issue. Benjamin also led the NRC presentation during the closed portion of the meeting. Jerry Holm and Jacoben Tone (AREVA) made a presentation of the AREVA plans to revise the B&W plant LBLOCA evaluation model and to perform a reanalysis of the LBLOCA for each of the B&W plants.

The expectations expressed by the NRC, and the AREVA plans to (1) revise the B&W plant LBLOCA evaluation model and (2) perform a reanalysis of the LBLOCA for each of the B&W plants, were in general agreement.

A list of attendees is enclosed. The AREVA presentation can be found in the NRC Agencywide Documents Access and Management System (ADAMS) at Accession No. ML15057A036. The NRC presentation can be found in ADAMS at Accession No. ML15057A032.

CONTACT: Jonathan Rowley, NRR/DPR  
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Action Items

The following action items were identified.

1. AREVA will submit for NRC review and approval a supplement to Topical Report (TR) BAW-10192PA, Revision 0, to revise the current approach to modeling fuel thermal conductivity degradation in the B&W plant LBLOCA evaluation model. A revision to BAW-10179P will be made to reference this BAW-10192PA, Revision 0, supplement. This supports the NRC position that the revision of the evaluation model requires review and approval by the NRC. The submittal of the proposed TR supplements will provide for an efficient and consistent NRC staff review of the evaluation model revision. The NRC indicated that they will want to review the justification for not redoing sensitivity studies with the revised evaluation model.
2. The utilities plan to have AREVA reanalyze the LBLOCA for each plant after the NRC issues a safety evaluation for the TR supplement. Each utility will notify the NRC when the reanalysis is complete. The reanalysis will be evaluated by each utility under 10 CFR 50.59 to determine if a license amendment request is required.
3. The NRC indicated that they are preparing a regulatory information summary (RIS) to provide guidance for 10 CFR 50.46 evaluation model change reporting requirements. The RIS is anticipated to be issued in late 2015.
4. The NRC stated that they had restarted the review of TR BAW-10192P, Revision 2, which had been suspended in 2010. AREVA indicated that BAW-10192P, Revision 2, was a Pressurizer Water Reactor Owners Group (PWROG) TR. The NRC would need to discuss with the PWROG whether it is desired that the review be restarted. The NRC requested a letter stating whether BAW-10192P, Revision 2, should be withdrawn, reviewed or classified as inactive.

Docket Nos. 50-269, 50-270, 50-287, 50-289, 50-313 and 50-346

Enclosure:  
List of Attendees

Action Items

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Docket Nos. 50-269, 50-270, 50-287, 50-289, 50-313 and 50-346

Enclosure:

List of Attendees

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**ADAMS Accession Nos.: ML15089A164 (Summary); ML15089A159 (Package); ML15042A558 (Notice); ML15057A036, ML15057A032 (Presentations)**

**NRC-001**

|               |            |            |            |            |
|---------------|------------|------------|------------|------------|
| <b>OFFICE</b> | PLPB/PM    | PLPB/LA    | PLPB/BC    | PLPB/PM    |
| <b>NAME</b>   | LAlvarado  | DHarrison  | AMendiola  | JRowley    |
| <b>DATE</b>   | 04/27/2015 | 04/07/2015 | 04/27/2015 | 04/27/2015 |

List of Attendees

**Partially Closed Meeting with Industry Stakeholders Regarding the Babcock and Wilcox  
Loss-of-Coolant Accident Evaluation Model Analysis**

February 25, 2015

| <b>Name</b>        | <b>Organization</b>                           |
|--------------------|---|
| Gayle Elliot       | AREVA Inc. (AREVA)                            |
| John Klingenfus    | AREVA   |
| Russell Cox        | AREVA   |
| Jerald Holm        | AREVA   |
| Chris Allison      | AREVA   |
| Bret Boman         | AREVA   |
| Jacoben Tone       | AREVA   |
| Adam Bingham*      | Duke Energy                                   |
| Tracy A Saville*   | Duke Energy                                   |
| Scott Thomas       | Duke Energy                                   |
| Thomas R. Byrne*   | Duke Energy                                   |
| Mark Handrick      | Duke Energy                                   |
| Robert St Clair*   | Duke Energy                                   |
| Stephenie L. Pyle* | Entergy Nuclear Operations (Entergy)          |
| Chip Garbe*        | Entergy                                       |
| Andy Tate*         | Entergy                                       |
| Bret Hawes*        | Entergy                                       |
| Bob Clark*         | Entergy                                       |
| Greg Broadbent     | Entergy                                       |
| Robert Jaffa       | Exelon Generation Company (Exelon)            |
| Frank Mascitelli   | Exelon  |
| Gregory Heasley    | Exelon  |
| Phil Lashley       | FirstEnergy Nuclear Operating Company (FENOC) |
| Daniel B Kelley    | FENOC   |
| Jonathan Rowley    | U.S. Nuclear Regulatory Commission (NRC)      |
| Andrea George*     | NRC   |
| Eva Brown          | NRC   |
| Benjamin Parks     | NRC   |
| Jeremy Dean        | NRC   |
| Reed Anzalone      | NRC   |
| Chris Jackson      | NRC   |
| Robert Gladney     | NRC   |
| Jennifer Whitman   | NRC   |
| John G. Lamb       | NRC   |
| Jeffrey White      | NRC   |
| Shanlai Lu         | NRC   |
| Fred Forsaty       | NRC   |
| Lydiana Alvarado   | NRC   |

\* participated via telephone conferencing

ENCLOSURE