

March 5, 2013

COMPANY: BABCOCK & WILCOX MPOWER, INC
DESIGN: MPOWER™ REACTOR DESIGN
SUBJECT: SUMMARY OF JANUARY 29, 2013, CLOSED MEETING WITH
BABCOCK & WILCOX NUCLEAR MPOWER, INC REGARDING
AIRCRAFT IMPACT ASSESSMENT, PROBABLISTIC RISK
ASSESSMENT, AND LOSS OF COOLANT ACCIDENT AND NON-
LOSS OF COOLANT ACCIDENT ANALYSIS

On January 29, 2013, a closed meeting was held between the U.S. Nuclear Regulatory Commission (NRC), and representatives of Babcock & Wilcox (B&W) mPower, Inc., at NRC Headquarters, Executive Boulevard Building, 6003 Executive Boulevard, Rockville, MD. The purpose of this closed meeting was to discuss Aircraft Impact Assessment, an update on B&W's Probabilistic Risk Assessment, and Loss of Coolant Accident (LOCA) and Non-LOCA Analysis.

The meeting began with a presentation on the Aircraft Impact Assessment performed by B&W. The presentation began with a brief overview of the plant layout to provide context to the Aircraft Impact Assessment. B&W then discussed their plan to follow NEI-07-13 guidance without exceptions, however noted that they deemed Section 2.0 did not apply. Finally, B&W presented a couple examples of potential strikes and the impact those strikes would have on the plant and plant systems. The staff present at the meeting provided feedback regarding the material discussed.

Following the Aircraft Impact presentation, B&W provided an update on the development of their Probabilistic Risk Assessment (PRA) for the mPower™ reactor design. The presentation included providing a schedule of the timeline for PRA completion including when significant portions of the PRA are expected to be complete including, but not limited to, Level 1, Level 2, Level 3/Severe Accident Management Design Alternative. B&W then presented an example of how insights gained through development of the PRA were able to be considered for enhancements in various system configurations.

Lastly, B&W presented the Safety Analysis preliminary results. B&W presented an overview of plant system configuration and identified several accident scenarios that have been modeled as well as the setpoint inputs and modeling assumptions utilized in the analysis. The staff asked numerous questions throughout including how inputs and assumptions were derived. B&W finished the presentation with a discussion on the path forward for continued analysis and the desire for continued staff interaction to discuss additional results.

The meeting agenda and meeting attendees are included in Enclosures 1 and 2. B&W mPower, Inc.'s slide presentations are available through the Agencywide Documents Access Management System (ADAMS). The ADAMS accession number for the non-proprietary,

redacted version of the Aircraft Impact slide presentation is ML12289A016 (Updated ML13031A200). The ADAMS accession number for the non-proprietary, redacted version of the Probabilistic Risk Assessment presentation is ML13015A031 (Updated ML13031A202). The ADAMS accession number for the non-proprietary, redacted version of the LOCA and Non-LOCA Analysis presentation is ML13015A027 (Updated ML13031A201). ADAMS is the system that provides text and image files of NRC's public documents. Documents are available electronically at the NRC's Electronic Reading Room at <http://www.nrc.gov/reading-room/adams.html>.

If you do not have access to ADAMS or have problems accessing the documents located in ADAMS, contact the NRC Public Document Room (PDR) staff at 1-800-397-4209, 301-415-4737, or pdr@nrc.gov.

Please direct any inquiries to Ross Moore at 301-415-6061 or Ross.Moore@nrc.gov, or to Joelle Starefos at 301-415-6091 or Joelle.Starefos@nrc.gov.

Sincerely,

/RA/

Ross P. Moore, Project Manager
Small Modular Reactor Licensing Branch 1
Division of Advanced Reactors and
Rulemaking
Office of New Reactors

Project No.: PROJ0776

Enclosures:

1. Agenda
2. List of attendees

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Please direct any inquiries to Ross Moore at 301-415-6061 or Ross.Moore@nrc.gov, or to Joelle Starefos at 301-415-6091 or Joelle.Starefos@nrc.gov.

Sincerely,

/RA/

Ross P. Moore, Project Manager
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Division of Advanced Reactors and
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Office of New Reactors

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- 1. Agenda
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NRC-001

OFFICE	PM:NRO/DARR/SMRLB1	PM:NRO/DARR/SMRLB1
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DATE	02/6/13	03/5/13

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**TENTATIVE AGENDA
FOR MEETING BETWEEN BABCOCK & WILCOX (B&W) AND THE U.S. NUCLEAR
REGULATORY COMMISSION (NRC) STAFF**

JANUARY 29, 2013

EXECUTIVE BOULEVARD BUILDING, ROOM EBB-01B13

TIME	TOPIC	LEAD
8:00 a.m. – 8:05 a.m.	Introduction	All
8:05 a.m. – 9:00 a.m.	Aircraft Impact Discussion	B&W
9:00 a.m. – 9:10 a.m.	Break	All
9:10 a.m. – 10:30 a.m.	Aircraft Impact Discussion	B&W
10:30 a.m. – 10:45 a.m.	Break	All
10:45 a.m. – 11:50 a.m.	Probabilistic Risk Assessment	B&W
11:50 a.m. – 12:00 p.m.	Break	All
12:00 p.m. – 12:45 p.m.	Probabilistic Risk Assessment	B&W
12:45 p.m. – 2:00 p.m.	Lunch	All
2:00 p.m. – 3:15 p.m.	Loss-of-Coolant Accident (LOCA) and Non-LOCA Analysis	B&W
3:15 p.m. – 3:30 p.m.	Break	All
3:30 p.m. – 4:55 p.m.	Loss-of-Coolant Accident (LOCA) and Non-LOCA Analysis	B&W
4:55 p.m. – 5:00 p.m.	Closing Remarks	NRC

ATTENDANCE LIST

**CLOSED MEETING BETWEEN BABCOCK AND WILCOX (B&W) AND THE U.S. NUCLEAR
REGULATORY COMMISSION (NRC)
REGARDING MPOWER™ AIRCRAFT IMPACT ASSESSMENT, PROBABILISTIC RISK
ASSESSMENT, AND EMERGENCY CORE COOLING SYSTEMS, AND LOSS-OF-COOLANT
ACCIDENT (LOCA) AND NON-LOCA ANALYSIS**

JANUARY 29, 2013; 8:00A.M. – 5:00P.M.

**6003 EXECUTIVE BOULEVARD, 01-B013
ROCKVILLE, MD 20852**

NAME	ORGANIZATION
Jan Mazza	NRC/NRO/DARR
Eileen McKenna	NRC/NRO/DSRA
Steve Floyd	Erin Engineering
Jack Demitz	Bechtel
Steve Kline	Bechtel
Chet Poslusny	B&W mPower
Mike Childerson	B&W mPower
Matt Dennis	Sandia National Laboratory
George Singh	Bechtel
Steve Schilthelm	B&W mPower
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Samuel Lee	NRC/NRO/DSRA
Rick Hill	Erin Engineering
Peter Hastings	B&W mPower
Joe Williams	NRC/NRO/DARR
Arlon Costa	NRC/NRO/DARR
James Saldarini	Bechtel
Andy Krinzman	B&W mPower
Greg Ballantyne	Bechtel
Kevin Bane	Bechtel
Robert Vettori	NRC/NRO/DSRA
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Courtney St. Peters	NRC/NRO/DARR

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Salman Haq	NRC/RES/DSA
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Al Scott	Bechtel
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Michelle Hart	NRC/NRO/DSEA
Neil Ray	NRC/NRO/DE
Michael Scarangella	B&W mPower
Peter Nguyen	B&W mPower
John Malloy	B&W mPower
David Zilles	B&W mPower
Michal Mazaika	NRC/NRO/DCIP
Carl Weber	NRC/NRO/DCIP
Pete Lee	NRC/NSIR/DSP
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Scott Bussey	NRC/OCHCO/ADHRTD
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(Revised 02/05/2013)

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