

May 29, 2013

COMPANY: BABCOCK & WILCOX MPOWER, INC  
DESIGN: MPOWER™ REACTOR DESIGN  
SUBJECT: SUMMARY OF SEPTEMBER 20, 2012, CLOSED MEETING WITH  
BABCOCK & WILCOX NUCLEAR MPOWER, INC REGARDING THE  
ANTICIPATED TRANSIENT WITHOUT SCRAM RULE AND STAFF  
FEEDBACK ON SOURCE TERM PAPER AND ACCIDENT ANALYSIS  
TECHNICAL REPORT

On September 20, 2012, a closed meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of Babcock & Wilcox mPower, Inc. (B&W mPower) at NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, MD. The purpose of this closed meeting was to discuss the Anticipated Transient Without Scram (ATWS) Rule, and for staff to provide feedback on a submitted Source Term Paper and Accident Analysis Technical Report by B&W mPower.

The meeting began with a presentation on the NRC's ATWS Rule as it pertains to the mPower™ design. The presentation by B&W mPower began with a brief overview of multiple systems, including the control rod drive mechanism, and some description of B&W mPower's understanding of the ATWS Rule. B&W mPower then explained how the systems developed in the mPower™ design are in conformance with the ATWS Rule and General Design Criteria 25 and 26. Staff asked design detail questions regarding the Control Rod Drive Mechanism design and testing.

After the ATWS Rule presentation, the meeting transitioned into a discussion allowing the staff to provide feedback on two proprietary technical reports submitted by B&W mPower. First, the Source Term Paper was discussed; there were several areas of the paper that the staff mentioned needing further clarification upon submittal of this information with the design certification application. Finally, B&W mPower asked if anything in the Source Term Paper necessitated further interaction with the staff regarding missing key elements. The staff did not identify any areas requiring additional clarification at this time.

The staff provided feedback on the Accident Analysis Technical Report identifying no significant challenges with the approach identified because it appeared to follow Regulatory Guide 1.203. There was significant interest from the staff on B&W mPower's testing plan and scope.

The meeting agenda and meeting attendees are included in Enclosures 1 and 2. B&W mPower, Inc.'s slide presentations are available through the ADAMS. The ADAMS accession

number for the non-proprietary, redacted version of the ATWS slide presentation is ML12272A162. The ADAMS accession number for the non-proprietary, redacted version of the Source Term Paper and the Accident Analysis Technical Report is ML12192A585 and ML11321A237, respectively. 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-rm/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](mailto:pdr@nrc.gov).

Please direct any inquiries to Ross Moore at 301-415-6061 or [Ross.Moore@nrc.gov](mailto:Ross.Moore@nrc.gov), or to Joelle Starefos at 301-415-6091 or [Joelle.Starefos@nrc.gov](mailto: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

Enclosure:

1. Agenda
2. List of attendees

cc w/encl: DC B&W mPower Mailing List

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Please direct any inquiries to Ross Moore at 301-415-6061 or [Ross.Moore@nrc.gov](mailto:Ross.Moore@nrc.gov), or to Joelle Starefos at 301-415-6091 or [Joelle.Starefos@nrc.gov](mailto:Joelle.Starefos@nrc.gov).

Sincerely,

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

Project No.: PROJ0776

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- 1. Agenda
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**ADAMS ACCESSION NO.: ML13099A241**

**NRC-001**

<b>OFFICE</b>	PM:NRO/DARR/SMRLB1	PM:NRO/DARR/SMRLB1
<b>NAME</b>	RMoore	JStarefos
<b>DATE</b>	5/28/2013	5/29/2013

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## AGENDA

### CLOSED MEETING BETWEEN BABCOCK & WILCOX (B&W) AND THE U.S. NUCLEAR REGULATORY COMMISSION (NRC) STAFF

SEPTEMBER 20, 2012

ONE WHITE FLINT NORTH, ROOM: O-4B06

TIME	TOPIC	LEAD
9:00 a.m. – 9:05 a.m.	Opening Remarks & Introductions	NRC
9:05 a.m. – 9:50 a.m.	Staff Feedback on Source Term Paper (Public version of position paper available at ADAMS Accession No: ML12192A585)	NRC
9:50 a.m. – 10:05 a.m.	Break	All
10:05 a.m. – 12:00 p.m.	ATWS Rule Discussion	NRC
12:00 p.m. – 1:00 p.m.	Lunch Break	All
1:00 p.m. – 2:00 p.m.	Staff Feedback on Accident Analysis Technical Report (Public version of technical report available at ADAMS Accession No. ML11321A237)*	NRC
2:00 p.m. – 2:10 p.m.	Break	All
2:10 p.m. – 3:15 p.m.	ATWS Rule Discussion (Continuation if needed)	NRC
3:15 p.m.	Adjourn	All

\*Note: Topic from September 19, 2012, Noticed meeting (ML12250A033) that was moved to September 20, 2012, meeting.

## ATTENDANCE LIST

**Closed Meeting Between Babcock and Wilcox and the NRC  
Regarding the Anticipated Transient without a SCRAM Rule, Staff Feedback on Source  
Term, and Accident Analysis Technical Report**

**Thursday, September 20, 2012, 9:00a.m. – 3:15p.m.  
11555 Rockville Pike, Room O-4B6  
Rockville, MD 20852**

<b>NAME</b>	<b>ORGANIZATION</b>
Jim Saldarini	Bechtel Power
Jonathan Witter	B&W mPower
Jason Williams	B&W mPower
Brian Arnholt	B&W mPower
Andrew Krinzman	B&W mPower
David Kanuch	B&W mPower
Sandra M. Sloan	B&W mPower
Anne-Marie Grady	NRC/NRO
Mike Childerson	B&W mPower
J.V. Smith	Bechtel
Stu Magruder	NRC/NRO
Steve Pope	B&W mPower
Yiu Law	NRC/NRO
Steven Kline	Bechtel
Eric Williams	B&W
Joelle Starefos	NRC/NRO
Jan Mazza	NRC/NRO
Chet Poslusny	B&W mPower
Michelle Hart	NRC/NRO
Joe Williams	NRC/NRO
Ted Feigenbaum	Generation mPower
Jason Huang	NRC/NRO
Eugene Eagle, Jr.	NRC/NRO
Milton Concepcion	NRC/NRO
Dinesh Taneja	NRC/NRO
Ken Mott	NRC/NRO
Erick Martinez	NRC/NRO

George Thomas	NRC/NRO
Chang-Yang Li	NRC/NRO
Pete Lee	NRC/NSIR
Ross Moore	NRC/NRO
Yanely Malave	NRC/NRO
Scott Bussey	NRC/TTC
David Diec	NRC/NSIR
Ron LaVera	NRC/NRO
Robert Martin	B&W mPower
Jim Gilmer	NRC/NRO
Ron Kelmenson	B&W mPower
John Budzynski	NRC/NRO
Mike Childerson	B&W

DC B&W mPower Mailing List

(Revised 04/22/2013)

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