

September 20, 2013

COMPANY: BABCOCK & WILCOX MPOWER, INC.

DESIGN: MPOWER™ REACTOR DESIGN

SUBJECT: SUMMARY OF JUNE 25, 2013, CLOSED MEETING WITH BABCOCK & WILCOX MPOWER, INC., TO DISCUSS THE MPOWER™ DESIGN PLANT LAYOUT AND CONSTRUCTION, VALIDATION OF THE SYSTEM FOR ANALYSIS OF SOIL-STRUCTURE INTERACTION CODE, THE RANDOM VIBRATION TECHNOLOGY TOPICAL REPORT, AND HYDROLOGY

On June 25, 2013, a public 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 the meeting was to discuss topics related to plant layout and construction, validation of the system for analysis of soil-structure interaction code, the random vibration technology topical report, steel concrete (SC) construction and seismic and hydrology issues.

B&W mPower presented information on plant layout and construction, with an emphasis on planning and incorporation of SC construction into the design. The staff queried the vendor about SC, including layout plans, impact on plant maintenance and inspections, and potential design elements. The staff communicated the potential impact on schedule when a new methodology is introduced for review within the design certification application.

B&W mPower then presented information on the use of random vibration theory (RVT) for seismic soil-structure interaction (SSI) analysis. In anticipation of the Topical Report on this subject, the staff and B&W mPower discussed the main computational steps in the RVT approach. The staff was assured by the vendor that many of the technical questions being discussed would be answered in the coming topical report about RVT. In addition, B&W mPower presented on the validation of the Structural Analysis Software System Interface (SASSI) for deeply-embedded structures and on hydrology and its relationship with seismic stability

The meeting agenda and meeting attendees are included in Enclosures 1 and 2. B&W mPower's slide presentations are available through the Agencywide Documents Access and Management System (ADAMS). The ADAMS accession numbers for the non-proprietary, redacted versions of the slide presentations are ML13178A087, ML13178A089, and ML13178A090. 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.

Please direct any inquiries to me at 301-415-2988 or Reed.Anzalone@nrc.gov, or Joelle Starefos at 301-415-6091 or Joelle.Starefos@nrc.gov.

Sincerely,
/RA/

Reed Anzalone, 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: Distribution via ListServ

Please direct any inquiries to me at 301-415-2988 or Reed.Anzalone@nrc.gov, or Joelle Starefos at 301-415-6091 or Joelle.Starefos@nrc.gov.

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Reed Anzalone, Project Manager
Small Modular Reactor Licensing Branch 1
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OFFICE	PM:NRO/DARR/SMRLB1	PM:NRO/DARR/SMRLB1
NAME	RAnzalone	JStarefos
DATE	09/20/2013	09/20/2013

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AGENDA

BABCOCK & WILCOX MPOWER, INC. (B&W) MEETING WITH THE U.S. NUCLEAR REGULATORY COMMISSION (NRC)

Tuesday, June 25, 2013; 8:00 a.m. – 4:30 p.m.

TIME	TOPIC	LEAD
8:00 am	Opening	NRC
8:05 am – 8:35 am	Plant Layout & Construction Overview	B&W
8:35 am – 10:15 am	Steel Concrete (SC) Construction	B&W
10:15 am – 10:30 am	Break	ALL
10:30 am – 12:00 pm	Steel Concrete (SC) Construction (cont'd)	B&W
12:00 pm – 1:00 pm	Lunch	ALL
1:00 pm – 2:45 pm	Implementation of Random Vibration Technology (RVT)	B&W
2:45 pm – 3:00 pm	Break	ALL
3:00 pm – 3:45 pm	Validation of System for Analysis of Soil-Structure Interaction (SASSI) for Deeply Embedded Structures	B&W
3:45pm – 4:15pm	Stability/Hydrology	B&W
4:15pm – 4:30 pm	Summary and Closing	B&W/NRC

ATTENDANCE LIST

Closed Meeting Between B&W mPower and the NRC Regarding Plant Layout and Construction, RVT Topical Report, SASSI Validation, and Hydrology

Tuesday, September 25, 2013, 8:00a.m. – 4:30p.m.
11555 Rockville Pike, Room O-4B06
Rockville, MD 20852

NAME	ORGANIZATION
Peter Hastings	Generation mPower
Ronald Beck	Bechtel
Jack Demitz	Bechtel
Steve Shilthelm	B&W mPower
Jose Pires	NRC/RES
Kirk Volovar	Bechtel
Pete Gaillard	TVA
Mark D. Notich	NRC/NRO
Samir Chakrabarti	NRC/NRO
George Thomas	NRC/NRO
Jim Saldarini	Bechtel Power
Sanj Malushte	Bechtel Power
Chester Poslusny	B&W mPower
Manas Chakravarty	NRC/NRO
Abdul H. Kazi	NRC/NRO
Farhang Ostadan	Bechtel
Reed Anzalone	NRC/NRO
Luisette Candelario Quintana	NRC/NRO
Sunwoo Park	NRC/NRO
Alissa Neuhausen	NRC/NRO
Madhumita Sircar	NRC/RES
Robert P. Kennedy	RPK Structural Mechanics Consulting
Mark McBride	NRC/NRO
Carl Weber	NRC/NRO
Martha Shields	DOE
Martin Reifschneider	Bechtel/mPower
Angela McAlpin	Bechtel/mPower
Adam Lineberry	Bechtel/mPower
Stu Magruder	NRC/NRO
Joelle Starefos	NRC/NRO
Thom Herrity	NRC/RES
Hernando Candra	NRC/RES

Stephanie Devlin	NRC/NRO
Vladimir Graizer	NRC/NRO
Carlos Coronado	Bechtel mPower
Michael McHood	Bechtel
Kit Ng	Bechtel
Lisa Anderson	Bechtel/mPower
Jan Mazza	NRC/NRO
Ann Hove	NRC/OGC
Steve Shapiro	Bechtel
Lewis Hartless	B&W
Matt Humberstone	NRC/NRO
Perry Green	Bechtel
Ross Moore	NRC/NRO
Weijun Wang	NRC/NRO