

September 27, 2011

COMPANY: BABCOCK & WILCOX NUCLEAR ENERGY

DESIGN: MPOWER REACTOR DESIGN

SUBJECT: SUMMARY OF AUGUST 30, 2011, CLOSED MEETING WITH BABCOCK & WILCOX NUCLEAR ENERGY TO DISCUSS THE SOFTWARE DEVELOPMENT PROCESS PROCEDURES AND HUMAN FACTORS ENGINEERING PROGRAM PLAN OVERVIEW (TAC NO. RN6075)

On August 30, 2011, a closed meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of Babcock & Wilcox Nuclear Energy (B&W NE) at NRC Headquarters, One White Flint North, 11555 Rockville Pike, Room O-6 B04, Rockville, Maryland. The purpose of the meeting was to discuss the software development process procedures and human factors engineering (HFE) program plan overview for the mPower design.

B&W NE and their contractor discussed the use of Capability Maturity Model Integration (CMMI) for the software development process procedures. The discussion focused on the alignment between CMMI Level 5 certification and the NRC regulatory requirements and guidance. B&W NE's contractor is preparing a detailed comparison and future discussion is planned once this work is completed.

B&W NE also presented their HFE program plan overview. The HFE scope of responsibility, a proposed submittal timeline, the main control room concept, critical SMR staffing issues, concept of operations, and some initial HFE design considerations were discussed. The NRC staff noted that NUREG-0711 is currently being revised and should become final by the end of the year. B&W plans to submit a series of technical reports beginning in the 4<sup>th</sup> quarter of calendar year 2011. HFE discussions will continue with B&W in future meetings.

The meeting agenda and meeting attendees are included in Enclosures 1 and 2. B&W NE slide presentations are available through the Agencywide Documents Access and Management System (ADAMS). The ADAMS accession number for the non-proprietary, redacted version of the slide presentations is ML11227A180 (revised ML11243A018). 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>.

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

Sincerely,

*/RA/*

Courtney St. Peters, Project Manager  
Advanced Reactor Branch 2  
Advanced Reactor Program  
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 Joelle Starefos at 301-415-6091 [Joelle.Starefos@nrc.gov](mailto:Joelle.Starefos@nrc.gov).

Sincerely,

*/RA/*

Courtney St. Peters, Project Manager  
Advanced Reactor Branch 2  
Advanced Reactor Program  
Office of New Reactors

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Enclosure:

- 1. Agenda
- 2. List of Attendees

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

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JMazza, NRO	DSantos, NRO	JAshcraft, NRO
NRay, NRO	TJackson, NRO	YMalave, NRO
MMayfield, NRO	MHumberstone, NRO	RMoore, NRO

**ADAMS ACCESSION NO.: ML112590020**

**NRO-001**

OFFICE	PM:NRO/ARP/ARB2	PM:NRO/ARP/ARB2
NAME	CStPeters	JStarefos
DATE	09/16/2011	09/27/2011

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**AGENDA**

**BABCOCK & WILCOX (B&W) MEETING WITH  
THE U.S. NUCLEAR REGULATORY COMMISSION (NRC) STAFF**

**AUGUST 30, 2011  
10:00 AM – 3:30 PM**

**ONE WHITE FLINT NORTH ROOM O-6B04**

<b>TIME</b>	<b>TOPIC</b>	<b>LEAD</b>
10:00am-10:10am	Opening and Introductions	NRC/B&W
10:10am-12:00pm	Overview of Software Procedure Update	B&W
12:00pm-1:00pm	Break	NRC
1:00pm-3:30pm	HFE Program Plan Overview	B&W
3:30pm	Adjourn	NRC

Enclosure

## ATTENDANCE LIST

**CLOSED MEETING BETWEEN BABCOCK & WILCOX (B&W) AND  
THE U.S. NUCLEAR REGULATORY COMMISSION (NRC)  
REGARDING THE SOFTWARE PROCEDURE UPDATE AND HUMAN FACTORS  
ENGINEERING PROGRAM PLAN OVERVIEW  
August 30, 2011**

<b>NAME</b>	<b>ORGANIZATION</b>
Sushil Birla	NRC/RES
Yanelly Malave	NRC/ARP
Greg Galletti	NRC/NRO/CRVA
Thomas Graham	B&W NE
Courtney St. Peters	NRC/ARP
Craig Hoying	NRC/ARP
Chester Poslusny	B&W
Joelle Starefos	NRC/NRO
Dinesh Taneja	NRC/NRO
Hulbert Li	NRC/NRO
Jan Mazza	NRC/NRO
Kerri Kavanagh	NRC/NRO
Erik M. Martinez	NRC/NRO
Stu Magruder	NRC/ARP
Ross Moore	NRC/NRO
Steve Fleger	NRC/RES
Mansur Khan	Bechtel
Michael Junge	NRC/NRO
Paul Pieringer	NRC/NRO
Brian Arnholt	B&W NE
Chris Massaro	Northrop Grumman
Mike Childerson	B&W NE
Terry Jackson	NRC/NRO/DE/ICE1
Daniel Laughman	B&W NE
Andrea Sterdis	TVA
Dennis Heinke	Northrop Grumman
Thomas Spink	TVA
Charles Fisher	Northrop Grumman
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(Revised 09/22/2011)

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