

March 15, 2012

COMPANY: BABCOCK & WILCOX NUCLEAR ENERGY

DESIGN: MPOWER REACTOR DESIGN

SUBJECT: SUMMARY OF JANUARY 31, 2012, CATEGORY 3 OPEN AND CLOSED MEETING WITH BABCOCK & WILCOX NUCLEAR ENERGY TO DISCUSS THE MPOWER SOFTWARE DEVELOPMENT PLAN AND NRC STAFF PRESENTATION ON PLANS FOR CHANGES TO CHAPTER 7 DURING DEVELOPMENT OF THE MPOWER DESIGN-SPECIFIC REVIEW STANDARD (TAC NO. RN6075)

On January 31, 2012, a public and 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, Two White Flint North, 11545 Rockville Pike, Rockville, MD. The purpose of this public and closed meeting was to discuss the mPower Software Development Plan and NRC staff presentation on plans for changes to Chapter 7 during development of the mPower Design Specific Review Standard.

B&W NE presented an update on their software process and procedure. Included in the presentation was a summary of activities between B&W NE and the NRC in 2011 regarding software development and a brief discussion of the methodology of B&W NE's mapping between regulatory requirements and Northrup Grumman Company procedures. The NRC staff asked questions and provided B&W NE feedback on the software development process.

The staff then presented plans for changes to the standard review plan Chapter 7 to be incorporated into the mPower Design-Specific Review Standard (DSRS). The discussion included background on Standard Review Plan Chapter 7 reviews for previous design certifications and challenges those reviews have faced, a detailing of lessons learned from those reviews, and an introduction to how the guidance may be restructured to address those challenges. The staff's slides for this presentation can be viewed in the Agencywide Documents Access and Management System (ADAMS) at ML12030206. B&W NE representatives were enthusiastic about the proposed NRC changes to the Chapter 7, Instrumentation and Controls, review standard. These changes will be piloted with the changes incorporated in the mPower DSRS.

Members of the public were not in attendance. Public Meeting Feedback forms were not received.

Following the public discussion, the meeting was closed to allow for a continuation of the meeting between the NRC Staff and representatives of B&W NE.

This closed portion of the meeting allowed for more detail on the proprietary details of the mPower Software Development Plan and a presentation of examples of how NRC regulatory requirements could be mapped to specific Northrup Grumman Company procedures. The NRC staff asked some additional questions and provided more B&W NE feedback on the software development process. This topic will be discussed at future meetings with B&W NE as the software development matures.

The meeting agenda and meeting attendees are included in Enclosures 1 and 2. B&W NE's slide presentations are available in ADAMS. The ADAMS accession number for the non-proprietary, redacted version of the slide presentation is ML11329A051. 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 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
Projects Branch
Division of Advanced Reactors and
Rulemaking
Office of New Reactors

Project No.: 0776

Enclosures:

1. Agenda
2. List of Attendees

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

This closed portion of the meeting allowed for more detail on the proprietary details of the mPower Software Development Plan and a presentation of examples of how NRC regulatory requirements could be mapped to specific Northrup Grumman Company procedures. The NRC staff asked some additional questions and provided more B&W NE feedback on the software development process. This topic will be discussed at future meetings with B&W NE as the software development matures.

The meeting agenda and meeting attendees are included in Enclosures 1 and 2. B&W NE's slide presentations are available in ADAMS. The ADAMS accession number for the non-proprietary, redacted version of the slide presentation is ML11329A051. 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>.

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OFFICE	PM:NRO/DARR/APRB	PM:NRO/DARR/APRB
NAME	RMoore	JStarefos
DATE	3/13/12	3/15/12

OFFICIAL RECORD COPY

AGENDA

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

**JANUARY 31, 2012
TWO WHITE FLINT NORTH, ROOM T-10A01**

TIME	TOPIC	LEAD
1:00 p.m. – 1:10 p.m.	Opening Remarks & Introductions	NRC/B&W
1:10 p.m. – 2:00 p.m.	Open Meeting to Discuss Software Development Process	NRC/B&W
2:00 p.m. – 2:50 p.m.	NRC Presentation on Plans for Changes to Chapter 7 of the mPower Design-Specific Review Standard	NRC
2:50 p.m. – 3:00 p.m.	Public Comment Period	NRC
3:00 p.m. – 3:15 p.m.	Break and Closing of the Meeting to the Public	NRC
3:15 p.m. – 4:10 p.m.	Closed Meeting to Discuss Details on mPower's Software Development Process	NRC/B&W
4:10 p.m. – 4:15 p.m.	Closing Remarks	NRC

Enclosure

ATTENDANCE LIST

CATEGORY 3 OPEN AND CLOSED MEETING BETWEEN BABCOCK & WILCOX AND THE NRC REGARDING THE MPOWER DESIGN SPECIFIC REVIEW STANDARD CHAPTER 7 CHANGES AND THE MPOWER I&C SOFTWARE DEVELOPMENT PLAN

JANUARY 31, 2012, 1:00 PM – 4:15 PM
TWO WHITE FLINT NORTH, ROOM T-10A01

NAME	ORGANIZATION
Ross Moore	NRC/NRO
Joe Williams	NRC/NRO
Tom Spink	TVA
Yanely Malave	NRC/NRO
Peter Hastings	GmP
Joelle Starefos	NRC/NRO
Hulbert Li	NRC/NRO/DE/ICB
Joe Ashcraft	NRC/NRO/DE/ICB
Jan Mazza	NRC/NRO/DARR
Matt Humberstone	NRC/NRO/DARR
Luis Betancourt	NRC/RES
Russell Snyder	NRC/RES
Tanya Hood	NRC/NRO
Milton Concepcion	NRC/RES/DE/DICB
Peter Kang	NRC/NRO/DE/ICB
David Diec	NRC/NSIR
Bernie Dittman	NRC/NRR
Jim Saldarini	Bechtel/mPower
Erick Martinez	NRC/NRO/DE
Eric Lee	NRC/NSIR
Melana Singletary	NRC/NRO/DE
Jesse Muir	NRC/NRO/DARR
Frank Talbot	NRC/NRO/CQAB
Jeff Halfinger	B&W
Mike Childerson	B&W
Charles Fisher	Northrop Grumman
Brian Green	NRO/NRC/DCIP/COLP
Brian Arnholt	B&W
Harry Wagage	NRC/NRO/DSRA/SBCV
Ian Jung	NRC/NRO/DE/ICB

Daniel Santos	NRC/NRO/DE
Arlon Costa	NRC/NRO/DARR
Paul Kumar	B&W/Licensing
Shanlai Lu	NRC/NRO/DSRA/SRSB
Chet Poslusny	B&W
Steven Pope	B&W
Stu Magruder	NRC/NRO/DARR
Mark Caruso	NRC/NRO
Earl Libby	NRC/NRO
Carl Weber	NRC/NRO
Sushil Birla	NRC
Christina Antonescu	NRC/ACRS
William Roggenbrodt	NRC/NRO/DE/ICE
Charles Nail	Bechtel
Kerri Kavanagh	NRC/NRO
Mohammed Shuaibi	NRC/NRO
Jeff Jacobson	NRC/NRO
Tom Bergman	NRC/NRO/DE
Randy Belles	ORNL
Willis Poore	ORNL
Dave Moses	ORNL
George Flanagan	ORNL
Bruce Bevard	ORNL

DC B&W mPower

(Revised 02/17/2012)

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