

August 15, 2011

COMPANY: BABCOCK & WILCOX NUCLEAR ENERGY INC.

DESIGN: MPOWER REACTOR DESIGN

SUBJECT: SUMMARY OF AUGUST 2, 2011, OPEN CATEGORY 1 AND CLOSED MEETING WITH BABCOCK & WILCOX NUCLEAR ENERGY TO DISCUSS THE APPLICATION OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS CODE SECTIONS III AND XI TO THE MPOWER DESIGN (TAC NO. RN6075)

On August 2, 2011, a public 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, Room T-10A1, Rockville, Maryland. The purpose of the meeting was to discuss the application of the American Society of Mechanical Engineers (ASME) Code Sections III and XI to the mPower design.

The NRC staff presented information on codes and standards for small modular reactors and proposed discussion topics for future dialogue between the NRC and B&W NE regarding application of ASME Codes Section III and XI to the mPower design. The NRC staff stressed that the presentation and proposed discussion topics are not a comprehensive list of subjects the NRC and B&W NE should discuss, but they should act as a starting point for continued dialogue between the parties during the pre-application process.

B&W NE discussed information on the mPower integral reactor arrangement and vessel design and made comments on the NRC staff presentation. B&W NE identified topics discussed by the NRC staff that it considered generic issues and not mPower-specific, such as the application of small-diameter piping inspection criteria of ASME Code Section XI. To this, the NRC staff suggested that the Nuclear Energy Institute could engage the overall industry on these generic issues. The NRC staff and B&W NE agreed that future meetings and dialogues are needed to discuss the application of ASME Code Sections III and XI to the mPower design. Lastly, the NRC staff expressed its interest in learning about B&W NE's plan to engage ASME on these issues.

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

The meeting agenda and meeting attendees are included in Enclosures 1 and 2. The NRC and B&W NE slide presentations are available through the Agencywide Documents Access and Management System (ADAMS). The ADAMS accession number for the NRC slide presentation is ML112081892 and the ADAMS accession number for the B&W NE meeting handout

is ML11215A054. A non-proprietary, redacted version of the B&W NE slide presentation is available at ADAMS ML11217A177. 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 staff at 1-800-397-4209, 301-415-4737, or pdr@nrc.gov.

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

Sincerely,

/RA/

Stephanie Devlin, 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: mPower DC Mailing List

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NRC-001

OFFICE	PM:NRO/ARP/ARB2	PM:NRO/ARP/ARB2	BC:NRO/ARP/ARB2
NAME	SDevlin	JStarefos (YMalave-Velez for)	SMagruder
DATE	08/11/2011	08/11/2011	08/15/2011

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AGENDA

OPEN AND CLOSED MEETING BETWEEN THE NUCLEAR REGULATORY COMMISSION (NRC) AND BABCOCK & WILCOX (B&W) NUCLEAR ENERGY REGARDING THE APPLICATION OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) CODE SECTIONS III AND XI TO THE MPOWER DESIGN

AUGUST 02, 2011; 10:00AM-12:00PM

TWO WHITE FLINT NORTH, ROOM T-10A1

TIME	TOPIC	LEAD
10:00am – 10:15am	Opening and Introductions	NRC/B&W
10:15am – 10:25am	Overview of ASME Code Section III and XI Requirements of Interest – Including Selection of ASME Code Addenda.	NRC/B&W
10:25am – 11:20am	Discuss ASME Code Section III treatment of components within the reactor vessel. <i>[Except for core-support components, treatment of components within the reactor vessel is not addressed by ASME Code Section III. The Integral Pressurized Water Reactors (iPWRs) have integrated much of the traditional primary systems within the vessel – how will the mPower design address the non-core-support components within the vessel?]</i>	NRC/B&W
	Discuss ASME Code Section III treatment of small diameter piping. <i>[How will the mPower design handle and analyze for typical small bore piping within or penetrating the reactor vessel?]</i>	NRC/B&W
	Discuss ASME Code Section XI in-service inspection requirements and their application to iPWR piping sizes below 4 inches in diameter. <i>[How will the mPower design apply the ASME Code Section XI requirements to piping sizes below 4 inches in diameter?]</i>	NRC/B&W
11:20am – 11:25am	Public Comment Period	NRC
11:25am – 11:30am	Closing of the Meeting to the Public	NRC
11:30am – 11:55am	Closed Portion of Meeting Discuss details on mPower systems within the reactor vessel and small bore piping design and analysis strategy	B&W/NRC
11:55am – 12:00pm	Closing	NRC
12:00pm	Adjourn	NRC

Enclosure

ATTENDANCE LIST

OPEN AND CLOSED MEETING BETWEEN THE NUCLEAR REGULATORY COMMISSION (NRC) AND BABCOCK & WILCOX (B&W) NUCLEAR ENERGY REGARDING THE APPLICATION OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) CODE SECTIONS III AND XI TO THE MPOWER DESIGN

AUGUST 02, 2011; 10:00AM-12:00PM

TWO WHITE FLINT NORTH, ROOM T-10A1

NAME	ORGANIZATION
Randy Belles	ORNL (via telephone)
Jana Bergman	SCIENTECH (via telephone)
Mike Childerson	B&W NE
Ben Cipiti	SNL (via telephone)
Greg Cranston	NRC
Bob Davis	NRC
Matt Dennis	SNL
Stephanie Devlin	NRC
Jennifer Dixon-Herrity	NRC
Mike Edwards	B&W NE
Jeff Halfinger	B&W NE
Lewis Hartless	B&W NE
Thomas Herrity	NRC
Keith Hoffman	NRC
John Honcharik	NRC
Craig Hoying	NRC
K.R. Hsu	NRC
Mike Jones	NRC
Yiu Law	NRC
Darrell Lee	B&W NE
Doug Lee	B&W NE
Y.C. (Renee) Li	NRC
Stewart Magruder	NRC
Michael Magyar	NRC
Greg Makar	NRC
Yanely Malave-Velez	NRC
Mike Mayfield	NRC
Jan Mazza	NRC
Ross Moore	NRC

NAME	ORGANIZATION
Michael Norato	NRC
Chester Poslusny	B&W NE
Neil Ray	NRC
Jeannie Rinckel	FIRSTENERGY
Jim Saldarini	BECHTEL
Mohammed Shuaibi	NRC
J.V. Smith	BECHTEL
Tom Spink	TVA
Joelle Starefos	NRC
Andrea Sterdis	TVA
David Terao	NRC
Rachel Vaucher	NRC
Rajgopal Vijaykumer	BECHTEL
Yuken Wong	NRC
John Wu	NRC

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