

November 29, 2010

MEMORANDUM TO: Stewart L. Magruder, Branch Chief
Advanced Reactor Branch 2
Advanced Reactor Program
Office of New Reactors

FROM: Yanely Malave-Velez, Project Manager */RA/*
Advanced Reactors Branch 2
Advanced Reactor Program
Office of New Reactors

SUBJECT: SUMMARY OF NOVEMBER 3, 2010, CLOSED MEETING WITH THE
NUCLEAR REGULATORY COMMISSION STAFF AND
BABCOCK & WILCOX COMPANY REGARDING THE UPDATED
DESIGN OVERVIEW AND INSTRUMENTATION AND CONTROLS
ARCHITECTURE FOR THE MPOWER DESIGN (PROJ0776)

On November 3, 2010, staff from the U.S. Nuclear Regulatory Commission (NRC) met with representatives from the Babcock & Wilcox (B&W) Company, at NRC Headquarters in Rockville, MD. The purpose of the meeting was to discuss the design overview, and the instrumentation and controls architecture for the Babcock & Wilcox mPower reactor design. The meeting agenda and meeting attendees are included in Enclosures 1 and 2. A summary of the meeting is included below.

B&W provided an update to the NRC staff on the mPower pre-application activities including the report submittals to date, planned submittals, and the status of technical meetings. As part of the design overview B&W provided a description of the high level requirements, containment requirements, site development and lead plant baseline schedule. In addition, B&W explained the integral nuclear steam supply system, overall reactor arrangement, overall safety approach, inherent safety features, balance of plant design, instrumentation and controls, testing programs and integral system test status.

For the safety-related instrumentation and controls overview B&W provided key design attributes of the systems and diagrams of the I&C system, plant protection layer, and protective subsystems. In addition, B&W explained their approach for regulatory conformance.

During the meeting NRC staff asked many questions, provided feedback to B&W considering the lessons learned from previous applications and identified that further dialogue is necessary to understand B&W's scope and detail of their application.

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B&W's 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 presentation is ML103010554. In addition, during the discussion of integral system testing questions arose regarding scaling analysis and the NRC staff provided a reference to B&W in order to clarify the discussion. The ADAMS accession number for the reference is ML103270693. 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.

Docket No.: PROJ0776

Enclosure:

1. Agenda
2. Attendance List

cc w/encl: See next page

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Enclosure:

1. Agenda
2. Attendance List

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DATE	11/24/10	11/24/10	11/29/10

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**CLOSED MEETING BETWEEN THE NRC AND BABCOCK & WILCOX
REGARDING THE MPOWER INSTRUMENTATION AND CONTROLS ARCHITECTURE**

**NOVEMBER 3, 2010
1:00 p.m. - 3:30 p.m.**

**ONE WHITE FLINT NORTH
11555 ROCKVILLE PIKE, ROOM O-07B04
ROCKVILLE, MARYLAND**

<u>TIME</u>	<u>TOPIC</u>	<u>LEAD</u>
1:00 p.m. – 1:05 p.m.	Opening Remarks & Introductions	NRC/B&W
1:05 p.m. – 1:20 p.m.	B&W Pre-Application Activities	B&W
1:20 p.m. - 2:05 p.m.	Design Overview (Refresher/Update)	B&W
2:05 p.m. - 2:50 p.m.	Safety-Related I&C Overview	B&W
2:50 p.m. - 3:20 p.m.	Conclusion and Open Discussions	ALL
3:30 p.m.	Adjourn	

ATTENDANCE LIST

CLOSED MEETING BETWEEN THE NRC AND BABCOCK & WILCOX REGARDING THE MPOWER INSTRUMENTATION AND CONTROLS ARCHITECTURE

NOVEMBER 3, 2010

1:00 p.m. - 3:30 p.m.

Name	Organization
Chester Poslusny	B&W
Thomas Cerafici	Bechtel
Steve Paul	Bechtel
Mark Jekel	Northrop Grumman
Charles Fisher	Northrop Grumman
Dan Stout	TVA
Ron La Vera	NRC
Paul Rebstock	NRC
Ralph Landry	NRC
Deindre Spaulding-Yesman	NRC
Hulbert C. Li	NRC
Ian Jung	NRC
Jay Lee	NRC
John M. Smith	NRC
Dough Lee	B&W
Pete Lee	NRC
TJ Kim	B&W
Gordon P. Arent	TVA
Edward V. McLann	NRC
Greg Cranston	NRC
Jack Zhao	NRC
Deanna Zhang	NRC
Shanlai Lu	NRC
Erick Martinez	NRC
Stewart Magruder	NRC
Imtiaz Madni	NRC
Bob Fitzpatrick	NRC
Nebiyu Tiruneh	NRC
Tamara Powell	NRC
Kenneth Baity	B&W
Jeff Halfinger	B&W
Brian Masterson	Northrop Grumman
Yanely Malave	NRC
Yaquang Yang	NRC
Chris Massaro	Northrop Grumman
Brian Arnholt	B&W

DC B&W mPower
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(Revised 10/27/2010)

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