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U.S. Nuclear Regulatory Commission  
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Rockville, MD 20852-2738

Babcock & Wilcox Nuclear Energy, Inc.  
Docket Number-PROJ0776  
Project Number-776

Subject: Updated List of Planned Report Submittals for the B&W mPower™ Reactor Project

By letter dated July 22, 2010 (BW-JAH-2010-220), B&W NE provided a list of planned technical and topical report submittals to support the design certification process for the B&W mPower reactor. Based on progress in our engineering and licensing initiatives, attached is an update to the subject list. The current version of the list of planned submittals captures a number of new entries, and provides revised dates for the Accident Analysis Codes and Methodology, Small Break LOCA PIRT, Multi-Module Staffing, Digital I&C Platform reports. The submittal dates shown are our best approximations at the present time; but, are subject to change, particularly following a rebaseline of the B&W mPower project schedule by early next year. We will keep you informed of our submittal plans via periodic updates to the attached going forward.

Questions concerning the attached may be directed to Jeff Halfinger at 434-316-7507 (email: [jahalfinger@babcock.com](mailto:jahalfinger@babcock.com)) or T. J. Kim at 434-382-9791 (email: [tjkim@babcock.com](mailto:tjkim@babcock.com)).



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T. J. Kim  
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Attachment – As Stated

JAH/jlr

cc: Stewart L. Magruder, Jr., NRC, TWFN 9-F-27  
Joelle L. Starefos, NRC, TWFN 9-F-27

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NRD

**B&W mPOWER™ REACTOR**  
**TECHNICAL/TOPICAL REPORT SUBMITTALS TO THE NRC**  
**As of October 2010**

TOPIC	SUBMITTAL DATE (ACTUAL)	CATEGORY
Quality Assurance Plan for Design Certification	(March 2010)	Topical
Critical Heat Flux Test and Correlation Development Plan	(April 2010)	Technical
Design Overview	(May 2010)	Technical
Integrated Systems Test (Facility Description and Test Plan)	(June 2010)	Technical
Core Nuclear Design Codes and Methods Qualification	(August 2010)	Topical
Control Rod Drive Mechanism Design and Development	(October 2010)	Technical
Quality Assurance Plan for Design Certification (Revision 1)	(October 2010)	Topical
Instrument Setpoint Methodology	(October 2010)	Topical
Security Design Assessment and Program Plan	December 2010	Technical
Design Overview (Revision 1)	Second Quarter 2011	Technical
IST (Facility Description and Test Plan – Revision 1)	Second Quarter 2011	Technical
Design Basis LOCA PIRT	Third Quarter 2011	Technical
ECCS Design	Third Quarter 2011	Technical
Digital I&C Platform	Second Quarter 2012	Technical
I&C System Defense-in-Depth and Diversity	Second Quarter 2012	Topical
Fuel Assembly Mechanical Design Criteria	Third Quarter 2011	Topical
HFE/HSI Program	Third Quarter 2011	Topical
Reactor Coolant Pump Design and Development	Fourth Quarter 2011	Technical
Core Nuclear Design	Fourth Quarter 2011	Technical
Core Thermal-Hydraulic Analysis Methodology	Fourth Quarter 2011	Topical
Accident Analysis Codes and Methodology	Fourth Quarter 2011	Topical
I&C Software Quality Assurance and Program Plan	Fourth Quarter 2011	Topical
Small Break LOCA Accident Analysis Methodology	First Quarter 2012	Topical
Non-LOCA Accident Analysis Methodology	Second Quarter 2012	Topical
Integrated Systems Test (Results)	Second Quarter 2012	Topical
Multi-Module Staffing	Second Quarter 2012	Topical

TOPIC	SUBMITTAL DATE (ACTUAL)	CATEGORY
Cyber Security Program	Third Quarter 2012	Topical
Critical Heat Flux Test and Correlation (Results)	Fourth Quarter 2012	Topical
Pressure-Temperature Limits Methodology	Fourth Quarter 2012	Topical
Core Operating Limits Methodology	Fourth Quarter 2012	Topical
Fuel Performance Analytical Methodology	Fourth Quarter 2012	Topical
Probabilistic Risk Analysis	Fourth Quarter 2012	Topical