

October 28, 2013

COMPANY: GENERATION MPOWER, LLC.

DESIGN: MPOWER™ REACTOR DESIGN

SUBJECT: SUMMARY OF SEPTEMBER 16-17, 2013 CLOSED MEETING WITH GENERATION MPOWER LLC., TO DISCUSS INTEGRATED SYSTEMS TEST FACILITY QUALITY ASSURANCE, INTEGRAL ISOLATION VALVE (IIV) DESIGN, REACTOR PRESSURE VESSEL INTERNALS, AND CONTROL ROD DRIVE DESIGN

On September 16-17, 2013, a closed meeting was held between the U.S. Nuclear Regulatory Commission (NRC), and representatives of Generation mPower LLC (GmP) at NRC Headquarters, Three White Flint North, 11601 Landsdown Street, Room 01-C03 North Bethesda, Maryland. The purpose of this meeting was to discuss the integrated systems test (IST) facility quality assurance (QA), integral isolation valve (IIV) design, reactor pressure vessel (RPV) internals, and control rod drive design.

The meeting on September 16, 2013, began with a presentation on the integrated systems test (IST) facility data use in the evaluation model. The pre-applicant provided a summary of how the IST data was used in the development of the evaluation model, the evaluation methodology and interfaces, and a review of the IST testing program. B&W mPower explained their methodologies for decision making, and addressed their IST quality assurance program plan, and the IST testing program. They stated the IST test data is not safety-related.

The meeting on September 17, 2013, began with a presentation on integral isolation valve (IIV) design. The licensee discussed the contents of a planned technical report that will be submitted to the NRC, and regulatory observations regarding the IIVs. They also presented their path forward on the topic. Next, GmP presented an update on the RPV internals. They went over the definition of RPV internals and ASME Code classification of RPV internals. They informed the NRC staff they consider the RPV to be the lower vessel. Last, the licensee presented an update on the control rod drive mechanism (CRDM). They informed the NRC about the update to the CRDM latch design. They also discussed the safety and operational comparisons, the latch test results, and the CRDM testing and plans.

The meeting agenda and meeting attendees are included in Enclosures 1 and 2. Generation mPower slide presentations are available through the Agencywide Documents Access and Management System (ADAMS). The ADAMS accession numbers for the non-proprietary, redacted version of the slide presentations are ML13266A028 for IST facility quality assurance, ML13252A018 (revised ML13266A198) for integral isolation valve (IIV) design, ML13252A020 (revised ML13266A196) for reactor pressure vessel (RPV) internals, and ML13252A019 (revised ML13266A197) for control rod drive design. 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 me at 301-415-5864, email: Courtney.StPeters@nrc.gov, or Joelle Starefos at 301-415-6091, email: (Joelle.Starefos@nrc.gov).

/RA/

Courtney St. Peters, Project Manager
Small Modular Licensing Branch 1
Division of Advanced Reactors and
Rulemaking
Office of New Reactors

Project No.: 0776

Enclosure:

1. Agenda
2. List of Attendees

cc: Distribution via ListServ

Please direct any inquiries to me at 301-415-5864, email: (Courtney.StPeters@nrc.gov), or Joelle Starefos at 301-415-6091, email: (Joelle.Starefos@nrc.gov).

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OFFICE	PM: NRO/DARR/SMRLB1	PM: NRO/DARR/SMRLB1
NAME	CSt.Peters	JStarefos
DATE	10/28/2013	10/23/2013

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AGENDA

**CLOSED MEETING BETWEEN GENERATION MPOWER LLC. AND THE U.S. NUCLEAR
REGULATORY COMMISSION (NRC) STAFF**

**MONDAY SEPTEMBER 16, 2013; 1:00 p.m. - 3:30 p.m.
THREE WHITE FLINT NORTH, ROOM 3-1C03**

TIME	TOPIC	LEAD
1:00pm-1:05pm	Opening Remarks & Introductions	NRC/ Generation mPower
1:05pm-2:30pm	IST Facility QA	Generation mPower
2:30pm-2:45pm	Break	ALL
2:45pm-3:30pm	IST Facility QA	Generation mPower
3:30pm	Adjourn	ALL

AGENDA

CLOSED MEETING BETWEEN GENERATION MPOWER LLC. AND THE U.S. NUCLEAR REGULATORY COMMISSION (NRC) STAFF

TUESDAY SEPTEMBER 17, 2013; 9:00 a.m. - 3:30 p.m.
THREE WHITE FLINT NORTH, ROOM 3-1C03

TIME	TOPIC	LEAD
9:00am-9:05am	Opening Remarks & Introductions	NRC/ Generation mPower
9:05am-10:50am	Valve Design	Generation mPower
10:50-11:00	Break	ALL
11:00am-12:00am	RPV Internals Update	Generation mPower
12:00-1:00pm	Lunch Break	ALL
1:00pm-1:05pm	Opening Remarks & Introductions	NRC/ Generation mPower
1:05pm-2:15pm	CRDM Design Update	Generation mPower
2:15pm-2:30pm	Break	NRC
2:30pm-3:30pm	CRDM Design Update	Generation mPower
3:30pm	Adjourn	ALL

ATTENDANCE LIST

**CLOSED MEETING BETWEEN GENERATION MPOWER LLC. AND THE U.S. NUCLEAR
REGULATORY COMMISSION (NRC) STAFF
September 16, 2013**

NAME	ORGANIZATION
Courtney St. Peters	NRC
Reed Anzalone	NRC
Yanely Malave	NRC
Jan Mazza	NRC
Joe Williams	NRC
Tim Mossman	NRC
Jason Huang	NRC
Kerri Kavanagh	NRC
Raj Goel	NRC
Joelle Starefos	NRC
Sandra M. Sloan	B&W mPower
Eric Williams	B&W mPower
David A. Zilles	B&W mPower
Robert P. Martin	B&W mPower
John Mohr	B&W mPower
Chester Poslusny	B&W mPower
Steve Schilthelm	B&W mPower
Shanlai Lu	NRC
Y. Gene Hsii	NRC
Victor Hall	NRC
Scott Bussey	NRC
John Rycyna	NRC
Carl Weber	NRC
R. Dowe Dabbs	B&W mPower
Peter Hastings	Generation mPower
Chris Hoxie	NRC

ATTENDANCE LIST

CLOSED MEETING BETWEEN GENERATION MPOWER LLC. AND THE U.S. NUCLEAR REGULATORY COMMISSION (NRC) STAFF September 17, 2013

NAME	ORGANIZATION
William Slagle	Bechtel mPower
Jan Mazza	NRC
Courtney St. Peters	NRC
Reed Anzalone	NRC
Joelle Starefos	NRC
Steve Kline	Bechtel mPower
Peter Lien	NRC
George Thomas	NRC
Neil Ray	NRC
Steve Pope	B&W mPower
Jim Strnisha	NRC
Mike Childerson	B&W mPower
Ron LaVera	NRC
Ryan Nolan	NRC
Tim Mossman	NRC
Pei-Ying Chen	NRC
Bob Davis	NRC
Paul K. DeSantis	B&W mPower
Brett Goodyear	B&W mPower
Thomas Scarbrough	NRC
Yaguang Yang	NRC
Stu Magruder	NRC
Chang-Yang Li	NRC
Yanely Malave	NRC
Scott Bussey	NRC
Sardar Ahmed	NRC
Stephen Koenick	NRC
Jason Huang	NRC
Russ Wells	B&W mPower
Peter Hastings	Generation mPower
Jim Saldarini	Bechtel mPower
David Kanuch	B&W mPower

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**CLOSED MEETING BETWEEN GENERATION MPOWER LLC. AND THE U.S. NUCLEAR
REGULATORY COMMISSION (NRC) STAFF**

September 17, 2013

NAME	ORGANIZATION
Kerri Madden	B&W mPower
Paul DiFilipo	B&W mPower
Steve Schilthelm	B&W mPower
John Malloy	B&W mPower
Matt Ales	B&W mPower
Mike Edwards	B&W mPower
John Mohr	B&W mPower
Dale Matthews	B&W mPower
Chester Poslusny	B&W mPower
Andrew Whitten	B&W mPower
Kate Haggerty	B&W mPower
Sandra M. Sloan	B&W mPower
Ted C. Feigenbaum	Generation mPower
Randall Kelley	Bechtel mPower
Carl Weber	NRC
Ian Tseng	NRC
Manomohan Subudhi	NRC/Brookhaven National Lab
Stephen Hambric	NRC/Brookhaven National Lab