

December 17, 2013

COMPANY: GENERATION MPOWER, LLC.

DESIGN: B&W MPOWER™ SMALL MODULAR REACTOR DESIGN

SUBJECT: SUMMARY OF OCTOBER 29, 2013 CLOSED MEETING WITH GENERATION MPOWER, LLC. REGARDING RADIOLOGICAL SOURCE TERM METHODOLOGY

On October 29, 2013, a closed meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of Generation mPower LLC (GmP) at NRC Headquarters, Two White Flint North, 11545 Rockville Pike, Room T08-A01, Rockville, Maryland. The purpose of this meeting was to discuss the design-basis accident radiological source term methodology.

The meeting began with a presentation on the design-basis accident radiological source terms. Generation mPower discussed the design overview including the critical safety functions and how they are addressed by the mPower design. Next, the pre-applicant addressed the NUREG-0800 transients that are applicable to the B&W mPower reactor. The NRC staff inquired whether GmP had identified any accidents or scenarios that are not currently in NUREG-0800. GmP responded that they plan to address the accident scenarios in a topical report planned for submittal to the NRC in 2014. Next the pre-applicant presented on their maximum hypothetical accident, a loss of coolant accident (LOCA). They then talked about the design features that preclude core uncover and their approach to crediting containment deposition. GmP showed their preliminary LOCA dose results and concluded that the preliminary LOCA dose results qualitatively show the benefits of mPower safety features.

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 number for the non-proprietary, redacted version of the slide presentation is ML13304A578 (revised ML13303A981). 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](mailto:pdr@nrc.gov).

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

Sincerely,  
*/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

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

Sincerely,  
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Courtney St. Peters, Project Manager  
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**NRC-001**

OFFICE	PM:NRO/DARR/SMRLB1	PM:NRO/DARR/SMRLB1
NAME	CStPeters	JStarefos
DATE	12/17/2013	12/17/2013

**OFFICIAL RECORD COPY**

## **AGENDA**

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

**TUESDAY, OCTOBER 29, 2013; 1:00 p.m. - 3:30 p.m.  
TWO WHITE FLINT NORTH, ROOM T08-A01**

<b>TIME</b>	<b>TOPIC</b>	<b>LEAD</b>
1:00pm-2:00pm	Radiological Source Term Methodology	Generation mPower
2:00pm-2:15pm	Break	All
2:15pm-3:30pm	Radiological Source Term Methodology	Generation mPower
3:30pm	Adjourn	NRC

## ATTENDANCE LIST

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

October 29, 2013

NAME	ORGANIZATION
David Diec	NRC
Kenny Thomas	NRC
William Slagle	B&W mPower
Jim Metcalf	B&W mPower/ Bison Nuclear
Dennis Klein	Bechtel mPower
James Haldeman	Bechtel mPower
Pete Gaillard	TVA
Jim Saldarini	Bechtel mPower
Steven Kline	Bechtel mPower
Darrell Gardner	Generation mPower
Eric Williams	B&W mPower
Jong E. Chang	B&W mPower
Amy Beasten	NRC
Sandra M. Sloan	B&W mPower
John Malloy	B&W mPower
Ken Jha	Bechtel
Michelle Hart	NRC
Joelle Starefos	NRC
Courtney St. Peters	NRC
Pete Lee	NRC
Joe Williams	NRC
Mike Childerson	B&W mPower
Michael D. Mazaika	NRC
Mike McCoppin	NRC
George Thomas	NRC
Tony Nakanishi	NRC
Elijah Dickson	NRC
Kevin Quinlan	NRC
Kimberly Gambone	NRC