

May 2, 2014

MEMORANDUM TO: Anna H. Bradford, Branch Chief  
Small Modular Reactor Licensing Branch 2  
Division of Advanced Reactors & Rulemaking  
Office of New Reactors

FROM: Arlon O. Costa, Senior Project Manager /RA/  
Small Modular Reactor Licensing Branch 2  
Division of Advanced Reactors & Rulemaking  
Office of New Reactors

SUBJECT: SUMMARY OF APRIL 8, 2014, PUBLIC MEETING WITH THE  
NUCLEAR ENERGY INSTITUTE (NEI) REGARDING A  
PROPOSED METHODOLOGY AND CRITERIA FOR  
ESTABLISHING THE TECHNICAL BASIS FOR SMALL  
MODULAR REACTOR EMERGENCY PLANNING ZONE.

The Nuclear Regulatory Commission (NRC) held a category 2 public meeting on April 8, 2014 to discuss a methodology proposed by the Nuclear Energy Institute (NEI) regarding small modular reactor (SMR) emergency planning zone (EPZ) sizing. The meeting was held in the Commissioners' Hearing Room, NRC Headquarters, 11555 Rockville Pike, Maryland, 20852.

After introductory remarks, the meeting opened with a presentation by NEI, which was based on a publicly available white paper issued by NEI on December 23, 2013, titled Proposed Methodology and Criteria for Establishing the Technical Basis for Small Modular Reactor Emergency Planning Zone. This white paper can be found in Agencywide Documents Access and Management System (ADAMS) under Accession No. ML13364A345. The white paper expounded upon a proposed methodology and criteria for establishing the technical basis for SMR plume exposure EPZ. This topic was previously discussed with NEI and industry at prior public meetings. Slides presented by NEI during the public meeting can be found in ADAMS under Accession No. ML14097A362.

After NEI's presentation, a discussion was held with NRC's technical staff. The staff asked questions regarding topics such as probabilistic risk assessment related to the spectrum of accidents; determination of reactor source term and its relationship to the Environmental Protection Agency protective action guidelines; and proposed calculation methods aiding in the determination of the plume exposure EPZ for SMRs. Following NEI's response to the staff questions, it was agreed that the staff would formally provide additional written questions to NEI seeking clarification on the proposed methodology and criteria described in the white paper.

Additional stakeholders attended the meeting in person or by phone. Towards the conclusion of the meeting, members of the public asked questions of the staff and they were also provided opportunities to provide additional questions in writing or through the NRC's online feedback system.

No regulatory decisions were made at the meeting.

The meeting agenda and list of attendees are included in Enclosures 1 and 2, respectively.

Docket No.: PROJ0689

Enclosures:

1. Agenda
2. Attendance

A. Bradford

-2-

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DISTRIBUTION:

Public

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NRO Branch Chiefs

**ADAMS Accession Number:ML14113A610**

**\* via E-mail**

**NRC-002**

OFFICE	PM:NRO/DARR/SMRLB2	PM:NRO/DARR/SMRLB2	BC:NRO/DARR/SMRLB2
NAME	LVechioli	ACosta	ABradford
DATE	04/29/14	04/30/14	05/02/14

**OFFICIAL RECORD COPY**

## **AGENDA**

### **NEI's White Paper on Proposed Methodology and Criteria for Establishing the Technical Basis for Small Modular Reactor Emergency Planning Zone.**

#### **Commissioner's Hearing Room**

**Tuesday, April 8<sup>th</sup>, 2014**

<b>TIME</b>	<b>TOPIC</b>	<b>LEAD</b>
1:00 p.m. – 1:10 pm	Opening Remarks	NRC/NEI
1:10 p.m. – 1:40 p.m.	NEI Paper Overview	NEI
1:40 p.m. – 3:00 p.m.	Discussion	NRC/NEI
3:00 p.m. – 3:15 p.m.	Q & A session	Public
3:15 p.m.	Adjourn	All

## ATTENDANCE

### NEI's White Paper on Proposed Methodology and Criteria for Establishing the Technical Basis for Small Modular Reactor Emergency Planning Zone.

#### Commissioner's Hearing Room

Tuesday, April 8<sup>th</sup>, 2014

NAME	AFFILIATION	NAME	AFFILIATION
Patricia Milligan	NRC	Participation by phone	
Stewart Magruder	NRC	Darrell Liles	Individual
Russ Bell	NEI	Thomas Hicks	Idaho National Laboratory
Kimberly Hawkins	NRC	Denise Jones	CP Special Projects
Charles Ader	NRC	Jodi Rappe	NuScale
Anthony Hsia	NRC	Wayne Mo	Idaho National Laboratory
Lucieann Vechioli	NRC	Sandra Sloan	Generation MPower
Robert Lewis	NRC	Sarah Fields	Uranium Watch
Yanely Malave	NRC	Lisa Matis	Tetra Technologies
Nishka Devaser	NRC	Mark Holbrook	Idaho National Lab
John Keely	NEI	Keith Graham	B&W MPower
Eric Schrader	NRC	Eric Williams	B&W MPower
Joelle Starefos	NRC	Kent Welters	NuScale
Suzanne Schroer	NRC	Steven Aitken	NEI
Mark Caruso	NRC	Mark Beaumont	Holtec
Arlon Costa	NRC	Ken Barry	Advanced Nuclear Technology
Anna Bradford	NRC	Jong Chang	B&W
Peter Hastings	Gen MPower	Robert Martin	B&W
Steven Mirsky	NuScale	Ashish Sinha	Ananuclear
Dave Leaver	NEI	Tom Clements	Columbia – Savannah Riversite Watch
David Young	WEC	Paul Genoa	NEI
Rob Sisk	WEC	James Metcalf	Bison Nuclear
Kenneth Thomas	NRC	Beatrice Brailsford	Snake River Alliance
Donald Palmorose	NRC		
Joe Jones	Sandia		
Jana Bergman	Sciencetech		
Dan Stout	TVA		
Edwards Burns	Individual		
Michelle Hart	NRC		
Mike Jones	NRC		
Mike Tschiltz	NEI		
Jason Shaperow	NRC		
Tim Beville	DOE		
Luis Betancourt	NRC		
Lynn Mrowca	NRC		
Greg Cranston	NRC		
Dan Barss	NRC		
James Shea	NRC		
Jonathan DeGange	NRC		

