

January 8, 2015

MEMORANDUM TO: Tara Inverso, Chief  
Rulemaking Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

FROM: Robert H. Beall, Senior Project Manager */RA/*  
Rulemaking Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF DECEMBER 11, 2014 PUBLIC MEETING ON  
THE CONTAINMENT PROTECTION AND RELEASE  
REDUCTION RULEMAKING

The U.S. Nuclear Regulatory Commission (NRC) held a Category 2 public meeting on December 11, 2014, to discuss the containment protection and release reduction (CPRR) of boiling water reactors (BWR) with Mark I and Mark II containments rulemaking. The public meeting was held at the NRC headquarters location in Rockville, Maryland. The notice and agenda for the meeting can be found in the Agencywide Documents Access and Management System (ADAMS) under Accession No. ML14324A101. The purpose of the meeting was to discuss updated industry information, feedback on performance criteria, and the NRC staff's planned path forward for the CPRR rulemaking.

The meeting was attended by 54 individuals primarily representing industry representatives and NRC staff. Of the 54 participants, 27 participated in the meeting through audio teleconferencing and webinar.

The NRC presentation materials are available in ADAMS under Accession No. ML14345A009, "12/11/2014 NRC Presentation, Containment Protection and Release Reduction Rulemaking." The industries presentation materials are available in ADAMS under Accession No. ML14345A010, "12/11/2014 Electric Power Research Institute (EPRI) Presentation, Technical Basis for Severe Accident Mitigating Strategies" and ML14345A011, "12/11/14 Nuclear Energy Institute Presentation, Containment Protection and Release Reduction of Boiling Water Reactors with Mark I and Mark II Containments Rulemaking", respectively. A transcript of the meeting can be found under ADAMS Accession No. ML15005A101.

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The major areas of discussion are summarized below:

### NRC Presentation

The NRC staff discussed the path forward for the CPRR rulemaking (ADAMS Accession No. ML14345A009). The NRC staff has performed a preliminary quantitative risk evaluation using a high-level conservative estimate that determined that any potential alternatives within the CPRR rulemaking would not be considered a substantial safety enhancement. The NRC staff's quantitative analysis shows that based on the NRC's Safety Goal Policy Statement's quantitative health objective (QHOs) there are no individual prompt fatalities and the individual latent cancer fatality risk is well below the QHO limit.

The NRC staff indicated they will be generating a Commission paper that provides details of the high-level, conservative estimate and provides the staff's recommended path forward for the rulemaking.

### Industry Presentation

The industry started by presenting their assumptions and results, sensitivities performed, and insights and conclusions from the EPRI analysis performed (ADAMS Accession No. ML14345A010). The information included results from the MAAP/MACCS2 computer analysis and the quantitative results for core damage frequency, conditional containment failure probability, latent cancer fatality risk, maximum averted cost risk, and the change in the maximum averted cost risk.

The industry next presented their preliminary results for the cost /benefit analysis of severe accident water addition (SAWA) (ADAMS Accession No. ML14345A011). The industry concluded that the adoption of SAWA strategies provides the greatest safety benefit compared to the other alternatives reviewed. The industry also stated that using the margin to the QHO is a useful screening tool for the CPRR rulemaking and the industry supports making generically applicable the requirements of Order EA-13-109 and the water addition strategies during a severe accident.

### Public Comments

During the open discussion part of the meeting several members of the public expressed concern about the recommended CPRR rulemaking path forward. The majority of comments were about the NRC use of qualitative factors and the QHOs to recommend a change to the CPRR rulemaking.

Enclosure:  
List of Attendees

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#### DISTRIBUTION:

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**ADAMS Accession Nos.: PKG: ML15008A002; Notice: ML14324A101; Summary ML15005A129; NRC Presentation ML14345A009; Industry Presentations ML14345A010, ML14345A011; Transcript ML15005A101 NRC-001**

<b>OFFICE</b>	NRR/DPR/PRMB	NRR/DPR/PRMB	NRR/DPR/PRMB	NRR/DPR/PRMB
<b>NAME</b>	RBeall	GLappert	TInverso	RBeall
<b>DATE</b>	01/04/2015	01/08/2015	01/08/15	01/08/15

**OFFICIAL RECORD COPY**

## LIST OF ATTENDEES

Name	Organization
Robert Beall	NRC/NRR
Rajender Auluck	NRC/NRR
Sudhamay Basu	NRC/RES
Eric Bowman	NRC/NRR
Mike Case	NRC/RES
Patrick Castleman*	NRC
Tim Collins	NRC/NRR
Hossein Esmaili	NRC/RES
Ed Fuller	NRC/RES
Tina Ghosh*	NRC/RES
Kathy Gibson*	NRC/RES
Tara Inverso	NRC/NRR
John Lane	NRC/RES
Glenna Lappert	NRC/NRR
Jack McHale	NRC/NRR
Aby Mohseni	NRC/NRR
Al Nota*	NRC/RES
Joan Olmstead	NRC/OGC
Sean Peters	NRC/RES
Michael Purdie	NRC/NRR
Bill Reckley*	NRC/NRR
Fred Schofer	NRC/NRR
Jim Shea	NRC/NRO
Marty Stutzke	NRC/RES
Brett Titus*	NRC/NRR
Weidong Wang	NRC/ACRS
Phil Amway	Exelon/BWROG
Janet Azarovitz*	Cape Downwinders
Jana Bergman*	Curtiss-Wright/Scientech
Anthony Brossi*	Engineering Planning & Management
Jeffrey Brown*	GRAMMES of New Jersey
Randy Bunt	Southern Nuclear Operating Co.
Kevin Burke*	DTE Energy
Patrick Fallon	DTE Energy
Terri Farthing	GEH
John Favara*	Entergy
Bill Freebairn*	Platts
Jeff Gabor	ERIN Engineering
Robert Ginsberg*	Duke Energy
Paula Gotch*	GRAMMES of New Jersey
Paul Gunter	Beyond Nuclear
Dan Jacobsen*	Entergy
Mary Lampert*	Pilgrim Watch
Patricia Marida*	Sierra Club
Chikako Nishimoto*	TANA
Glen Ohlemacher*	DTE Energy

Ken Putnam*	Nextra Energy
Richard Rothstein*	Town of Plymouth
James Simpson*	Town of Plymouth
Thaddeus Swanek*	NEI
Shayne Tenace*	Exelon Corp
Richard Wachowiak	EPRI
Scott Wood*	Energy Northwest
Dale Wuokko*	TANA
<b>* attended via teleconference</b>	