

May 26, 2016

MEMORANDUM TO: Greg Casto, Chief  
Fire Protection Branch  
Division of Risk Assessment  
Office of Nuclear Reactor Regulation

FROM: Alexander Schwab, Project Manager /RA/  
Generic Communications Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF MAY 11, 2016, PUBLIC MEETING TO DISCUSS  
TORNADO GENERATED MISSILE PROBABILISTIC ANALYSIS

On May 11, 2016, a Category 2 public meeting was held between U.S. Nuclear Regulatory Commission (NRC) staff and stakeholders, at NRC headquarters. The purpose of the meeting was to seek input from stakeholders, and to discuss working group coordination efforts that will review the use of probabilistic methods of analysis for tornado-generated missile protection with deterministic license amendments.

The meeting began with opening remarks from the Director, Division of Risk Assessment. He discussed how the NRC wanted to move the conversation forward in a meaningful way.

The Nuclear Energy Institute (NEI) gave a presentation titled, "NEI Tornado Missile Risk Evaluator (TMRE)" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML16132A118). In the presentation, NEI discussed the TMRE process and how it worked, as well as all supporting requirements that will be included in the TMRE methodology. Some questions that NRC staff asked during a March 23, 2016, meeting were also discussed. Throughout the meeting, NRC staff asked NEI to clarify points made in the presentation.

The next topic of discussion was a draft license amendment template (ADAMS Accession No. ML16138A006) created by NRC staff. The template was created in order to assist licensees with the submission of a license amendment request regarding tornado missile considerations. NEI asked several questions in order to clarify some of the information in the template.

NEI also discussed NRC staff recommendations regarding determination of missile impact probability (ADAMS Accession No. ML16131A001).

The possibility of extending the Enforcement Guidance Memorandum (EGM 15-002) from a three (3) year discretion period to five (5) years (for plants located within Regulatory Guide 1.76 Region 1) was discussed, as well as how licensees may request the extension if necessary. The meeting ended with a discussion on the path forward for the TMRE methodology.

G. Casto

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During the meeting the attendees were reminded that although their comments were discussed with the staff, no decisions would be made at the meeting.

A list of meeting attendees is enclosed.

Please direct any inquiries to Alexander Schwab, Project Manager, at 301-415-8539, or Alexander.Schwab@nrc.gov.

Enclosure:  
List of Attendees

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A list of meeting attendees is enclosed.

Please direct any inquiries to Alexander Schwab, Project Manager, at 301-415-8539, or Alexander.Schwab@nrc.gov.

Enclosure:  
List of Attendees

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**EXTERNAL DISTRIBUTION:**

Dave Lochbaum - dlochbaum@ucsusa.org

**ADAMS Accession Nos:** Pkg: ML16141A136; Mtg. Notice: ML16131A785; Mtg. Materials: ML16131A001, ML16132A118; Summary: ML16141A141 \*concurrence via e-mail NRR-001

<b>OFFICE</b>	NRR/DPR/PGCB/PM*	NRR/DPR/LA*	NRR/DPR/PGCB/BC*
<b>NAME</b>	ASchwab	ELee	SStuchell
<b>DATE</b>	5/20/2016	05/23/2016	05/25/2016
<b>OFFICE</b>	NRR/DRA/AFP/BC*	NRR/DPR/PGCB/PM	
<b>NAME</b>	GCasto	ASchwab	
<b>DATE</b>	05/25/2016	5/26//2016	

**OFFICIAL RECORD COPY**

ATTENDANCE LIST

**PUBLIC MEETING BETWEEN U.S. NUCLEAR REGULATORY COMMISSION STAFF AND  
STAKEHOLDERS TO DISCUSS TORNADO GENERATED MISSILE PROBABILISTIC  
ANALYSIS (CATEGORY 2)**

**May 11, 2016**

**1:00 p.m. - 5:00 p.m.**

**ONE WHITE FLINT NORTH, 1<sup>ST</sup> FLOOR COMMISSION HEARING ROOM**

<b>NAME</b>	<b>ORGANIZATION</b>
Greg Casto	NRC
Russ Felts	NRC
Shilp Vasavada	NRC
Jim Hickey	NRC
Gordon Curran	NRC
Mehdi Reisifard	NRC
Alex Schwab	NRC
Joe Giitter	NRC
Stacey Rosenberg	NRC
Steven Laur	NRC
Bruce Montgomery	NEI
Keith Wooten	SNC
Ken Lowery	SNC
Alex Gilbreath	SNC
Jack Grobe	Exelon
Jason Patterson	Duke Energy
Heather Szens	Duke Energy
Lee Kanipe	Duke Energy
John Stamatakos	CNWRA/SWRI
Stephen Hess	EPRI
Atanya Lewis	NextEra
Anil Julka	NextEra
Chris Riedl	TVA
Roger Gish	TVA
Leo Shanley	Jensen Hughes
Tammy Kolb	Ameren
Ken Heffner	Certrec

Enclosure