

May 19, 2016

MEMORANDUM TO: Bo Pham, Acting Deputy Director  
Division of Spent Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

FROM: Donald Chung, Risk Analyst **/RA/**  
Criticality, Shielding, & Risk Assessment Branch  
Division of Spent Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

SUBJECT: SUMMARY OF APRIL 28, 2016, MEETING WITH NEI AND EPRI ON  
THE DEVELOPMENT OF A RISK-INFORMED FRAMEWORK FOR  
SPENT FUEL STORAGE CERTIFICATION AND LICENSING  
ACTIVITIES (TAC NO. A33021)

#### Background

On April 28, 2016, a meeting was held in Rockville, MD, between NRC staff and representatives from Nuclear Energy Institute (NEI) and Electric Power Research Institute (EPRI) to discuss the development of risk-informed framework for spent fuel storage. The list of meeting attendees is provided in Enclosure 1.

The meeting was noticed on April 15, 2016 (ML16106A267),

#### Discussion

The meeting discussion followed the meeting agenda which is provided in Enclosure 2. All presentations are in Agencywide Documents Access and Management System (Accession No.: ML16118A104).

NRC provided a presentation on the current implementation plan for risk-informing spent fuel regulatory activities. The presentation covered the phases of dry spent fuel storage, defense-in-depth, possible approach for risk assessment, and path forward.

NEI gave a presentation on developing a risk-informed dry storage regulatory framework. NEI presentation included the background information. The NEI key points were the industry submitted PRM 72-7 to standardize certificate of compliance (CoC) and Technical Specifications at a more risk appropriate (reduced) level of detail. The proposed amendments would reduce license amendments, conserve resources, and allow the focus to be on safety issues. The NEI's proposed Regulatory Issue Resolution Protocol (RIRP) can be used to pilot a CoC amendment; and a new PRA is not needed to risk-inform the dry storage regulatory framework.

EPRI gave a presentation on consequence analysis for canister degradation. The presentation covered currently available consequence analyses, proposed risk parameters, risk-informed references; and plans to perform canister breach consequence analysis.

**Action Items/ Next Steps**

The NRC staff will following up on the information provided by NEI and EPRI as a path forward is being developed.

Enclosures:

1. Meeting Attendees
2. Agenda

EPRI gave a presentation on consequence analysis for canister degradation. The presentation covered currently available consequence analyses, proposed risk parameters, risk-informed references; and plans to perform canister breach consequence analysis.

**Action Items/ Next Steps**

The NRC staff will following up on the information provided by NEI and EPRI as a path forward is being considered.

Enclosures:

1. Meeting Attendees
2. Agenda

**DISTRIBUTION:**

NMSS/DSFM Rids/OpaMail Resource      NMSS\_DSFM\_RMB Distribution  
MLombard

G:\SFST\Risk-Informed SFST\Public Meetings\4-28-2016 meeting\4-28-2016 summary.docx  
ADAMS Package No.: ML16106A267 and ML16118A104.

**ADAMS Accession Number: ML16145A115**

<b>OFC</b>	NMSS/DSFM	NMSS/DSFM	NMSS/DSFM
<b>NAME</b>	DChung	WWheatley	MRahimi
<b>DATE</b>	5/19/16	5/19/19	5/19/19

## MEETING ATTENDEES

Public Meeting on the Development of a Risk-Informed Framework for Spent Fuel  
Storage Certification and Licensing Activities  
April 28, 2016, 8:30 – 10:30 AM

Name	Affiliation
Paul Plante	3 Yankees
Kris Cummings	NEI
Rod McCullum	NEI
Mark Lombard	NRC/NMSS/DSFM
Kimberly Manzione	Holtec
Stefan Anton	Holtec
Meraj Rahimi	NRC/NMSS/DSFM
Donald Chung	NRC/NMSS/DSFM
Rick Reid	EPRI
Dennis Damon	NRC/FCSE
Brian Wagner	NRC/RES/DRA
Darrell Dunn	NRC/NMSS/DSFM
Damaris Marcano	NRC/NMSS/DSFM
John Wise	NRC/NMSS
Patti Silva	NRC/NMSS
Bo Pham	NRC/NMSS
A.H. Hsia	NRC/NMSS/DSFM
Kenn Hunter	Exelon
Keith Waldrop	EPRI
Derek Widmayer	NRC/ACRS
Bob Capstick	3 Yankee
Adam H. Levin	AHL Consulting
Bill I. Babiak	First Energy Nuclear
Tom Tramm	Certrec
Hatice Akkurt	EPRI
Randall Granaas	SONG Fuels
Shannon Chu	EPRI
Don Shaw	AREVA TN Americas
Kevin Fuhr	Dominion Engineering
Tom Dodson	EPM Inc.
Terry Pickens	Xcel Energy

## **PUBLIC MEETING AGENDA**

### **Discussion of Risk-Informing Framework for Spent Fuel Storage Certification and Licensing Activities**

April 28, 2016, 8:30 AM to 10:30 AM  
US NUCLEAR REGULATORY COMMISSION  
Two White Flint North, T8A1  
11545 Rockville Pike  
Rockville, MD 20852

<b>Time</b>	<b>Topics</b>	<b>Speakers</b>
8:30-8:40 AM	Welcome, introduction, and Meeting Objectives	Meraj Rahimi/ Mark Lombard
8:40-9:00AM	Risk-Informing Spent Fuel and Transportation Regulatory Activities (NRC/NMSS)	Meraj Rahimi
9:00-9:30 AM	Developing a Risk-Informed Dry Storage Regulatory Framework (NEI)	Kristopher Cummings
9:30-10:00 AM	Stainless Steel Canister Degradation: Discussion of Consequence Analysis Approach (EPRI)	Rick Reid/ Shannon Chu
10:00-10:30 AM	Discussion pros and cons of framework options, public comments and wrap up	