



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

December 3, 2020

MEMORANDUM TO: Christian Araguas, Acting Deputy Director
Division of Fuel Management
Office of Nuclear Material Safety and Safeguards

FROM: Tilda Liu, Senior Project Manager *Tilda Liu*
Storage and Transportation Licensing Branch
Division of Fuel Management
Office of Nuclear Material Safety and Safeguards

SUBJECT: SUMMARY OF NOVEMBER 6, 2020, CATEGORY 2 PUBLIC
WORKSHOP ON SPENT FUEL PERFORMANCE MARGINS

On November 6, 2020, the U.S. Nuclear Regulatory Commission (NRC) held a Category 2 remote public workshop with the Nuclear Energy Institute (NEI) and other industry representatives to continue dialogue on recommendations contained in the NEI's white paper on Spent Fuel Performance Margins dated November 8, 2019 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML19318D971). This workshop built upon previous held meetings and workshops including those conducted on January 22, 2020 (ADAMS Accession No. ML20028F277), March 25-26, 2020 (ADAMS Accession No. ML20106F135), April 15-16, 2020 (ADAMS Accession No. ML20126G388), June 11, 2020 (ADAMS Accession No. ML20170A355), June 23 (ADAMS Accession No. ML20197A299), and July 28, 2020 (ADAMS Accession No. ML20223A352), and September 9, 2020 (ADAMS Accession No. ML20262H259), respectively.

After the opening remarks by the NRC and the NEI, the industry representatives discussed the information contained in the NEI's letter, "Submittal of NEI/Industry-Developed Shielding Method of Evaluation Examples and Introductory Presentation for the November 2020 Table Top Exercise," dated October 15, 2020 (ADAMS Accession No. ML20309A220). Specifically, the NEI's October 12, 2020, letter provided introductory presentation of industry-developed shielding MOE examples by applying the NRC's new licensing review practices and looking forward to subsequent implementation of these practices.

The following discussion materials were used by the industry during the subject workshop:

- Submittal of NEI/Industry-Developed Shielding Method of Evaluation Examples and Introductory Presentation for the November 2020 Tabletop Exercise (ADAMS Accession No. ML20309A220)
- Performance Margins Introduction (ADAMS Accession No. ML20323A015)

CONTACT: Tilda Liu, NMSS/DFM/STLB
404-997-4730

The following discussion materials were used by the NRC staff during the subject workshop:

- NRC Shielding Method of Evaluation (MOE) for Public Meeting on Spent Fuel Performance Margins (ADAMS Accession No. ML20304A390)

The NRC staff summarized the November 6, 2020, workshop on Spent Fuel Performance Margins by sharing upcoming plans including a meeting being planned between NRC and the industry in December 2020, as well as an anticipated submission of a proposed topical report and a pilot for the proposed amendment, both expected from the industry.

At the end of the workshop, the NRC staff provided an opportunity for the members of the public to comment or ask questions regarding NRC's regulatory process related to the topics discussed. A member of the public shared a general comment which did not require follow-up.

More than 50 individuals from industry, vendor groups, public citizens, and NRC staff attended the workshop (some participating in portions only) via WebEx and telephone bridge line. The discussions held during this workshop benefited both the NRC staff and industry representatives, as they provided an effective and efficient forum of communication for all parties involved. No NRC staff decision was made during the meeting.

Enclosure 1 contains the meeting agenda for the November 6, 2020, workshop, as previously posted in the NRC's public meeting notice (ADAMS Accession No. ML20297A421). Enclosure 2 lists those who participated in the November 6, 2020, remote public workshop. Enclosure 3 provides the detailed meeting summary for the workshop. Enclosure 4 is a summary table which the NRC staff shared with the industry during the workshop.

Enclosures:

1. Meeting Agenda
2. List of Participants
3. Meeting Summary
4. Summary Table: November 6, 2020, Workshop on Spent Fuel Performance Margins

SUBJECT: SUMMARY OF NOVEMBER 6, 2020, CATEGORY 2 PUBLIC
WORKSHOP ON SPENT FUEL PERFORMANCE MARGINS

DATED: December 3, 2020

DISTRIBUTION:

RTorres, NMSS
AKock, NMSS
CRegan, NMSS
RChang, NMSS
TBoyce, NMSS
JMcKirgan, NMSS
MDiaz, NMSS
LCuadrado, NMSS
YDiazSanabria, OEDO
VWilson, NMSS
DChung, NMSS
ZLi, NMSS
MCall, NMSS
CJacobs, NMSS
JSmith, NMSS
TMcCartin, NMSS
JRubenstein, NMSS
ABell, OGC

ADAMS Accession Nos.: ML20329A468 (Pkg) ML20329A469 (Ltr) ML20329A470 (Encl)

OFFICE	NMSS/DFM/STLB:LA	NMSS/DFM/MCAB:PM	NMSS/DFM:DD
NAME	SFigueroa	TLiu	CAraguas
DATE	11/24/2020	11/24/2020	12/3/2020

OFFICIAL RECORD COPY

MEETING AGENDA

CATEGORY 2 PUBLIC WORKSHOP ON SPENT FUEL PERFORMANCE MARGINS

November 6, 2020

Time	Topic	Speaker(s)
8:30 am	Introductions/Opening Remarks (10 mins)	NRC/NEI
8:40 am	Discussion of an example on how the MOE could be used, with NRC staff asking questions during the presentation (60 mins)	NEI/Holtec
9:40 am	BREAK	
9:50 am	Discussion of an example on how the MOE could be used, with NRC staff asking questions during the presentation (60 mins)	NEI/TN
10:50 am	BREAK	
11:00 am	Open group discussion on potential issues with the proposals for regulatory compliance and/or adoption (30 mins)	NRC/NEI
11:30 am	NEI presentation on topical reports and NRC staff questions (30 mins)	NEI
12:00 pm	BREAK	
12:10 pm	Opportunity for public comment (15 mins)	All
12:25 pm	Summary and closing remarks (20 mins)	NRC/NEI
12:45 pm	Meeting adjourn	

LIST OF PARTICIPANTS

CATEGORY 1 PUBLIC WORKSHOP ON SPENT FUEL PERFORMANCE MARGINS

November 6, 2020

Name	Affiliation
Christian Araguas	Nuclear Regulatory Commission (NRC)
Tae Ahn	NRC
Alana Bell	NRC
Billy Blaney	NRC
Tom Boyce	NRC
Mike Call	NRC
Leira Cuadrado	NRC
Richard Chang	NRC
Donald Chung	NRC
Marlone Davis	NRC
Marilyn Diaz	NRC
Christian Jacobs	NRC
Jo Jacobs	NRC
Andrea Kock	NRC
Haile Lindsay	NRC
Zhian Li	NRC
Tilda Liu	NRC
Timothy McCartin	NRC
John McKirgan	NRC
Jason Piotter	NRC
Christopher Regan	NRC
Yaira Diaz Sanabria	NRC
Jeremy Smith	NRC
Jorge Solis	NRC
Ricardo Torres	NRC
Veronica Wilson	NRC
Aladar Csontos	Electric Power Research Institute (EPRI)
Hattice Akkurt	EPRI
Stefan Anton	Holtec International (Holtec)
Sven Bader	Orano Group
Steven Baker	Transware
Jana Bergman	Curtiss Wright
George Carver	NAC International
Jack DeSando	Exelon
Elmar Eidelpes	Idaho National Laboratory (INL)
Keith Waldrop	EPRI
M Dav	Public
Kimberly Hobbs	Exelon
Nicholas Kucinski	Holtec
Zita Martin	Tennessee Valley Authority

Name	Affiliation
Fred Madden	Certrec
Kim Manzione	Holtec
Vadym Makodym	Holtec
Rodney McCullum	Nuclear Energy Institute (NEI)
Rick Migliore	Orano Group
Prakash Narayanan	Orano Group
Stanley Orrell	INL
Randall Granaas	Public
Robert Quinn	Public
Don Shaw	Public
Glenn Schwartz	PSEG Nuclear
Mark Richter	NEI
Kalene Walker	Public
Douglas Yocum	Curtiss Wright

MEETING SUMMARY

CATEGORY 2 PUBLIC WORKSHOP ON SPENT FUEL PERFORMANCE MARGINS

November 6, 2020

On November 6, 2020, the U.S. Nuclear Regulatory Commission (NRC) held a Category 2 remote public workshop with the Nuclear Energy Institute (NEI) and other industry representatives to continue dialogue on recommendations contained in the NEI's white paper on Spent Fuel Performance Margins dated November 8, 2019 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML19318D971). This workshop built upon previous held meetings and workshops including those conducted on January 22, 2020 (ADAMS Accession No. ML20028F277), March 25-26, 2020 (ADAMS Accession No. ML20106F135), April 15-16, 2020 (ADAMS Accession No. ML20126G388), June 11, 2020 (ADAMS Accession No. ML20170A355), June 23 (ADAMS Accession No. ML20197A299), and July 28, 2020 (ADAMS Accession No. ML20223A352), and September 9, 2020 (ADAMS Accession No. ML20262H259), respectively.

During the November 6, 2020, workshop, the NRC staff, the NEI, and industry representatives held discussions to facilitate better understanding of the new method of evaluation (MOE) approach for meeting 10 CFR Part 72 regulations pertaining to shielding and dose rate. As part of this meeting, the industry provided examples similar to what the NRC staff had provided at the September 9, 2020, workshop.

After the opening remarks by the NRC and the NEI, the industry representatives discussed the information contained in the NEI submittal, "Submittal of NEI/Industry-Developed Shielding Method of Evaluation Examples and Introductory Presentation for the November 2020 Table Top Exercise," dated October 15, 2020 (ADAMS Accession No. ML20309A220). Specifically, the NEI's October 12, 2020, submittal provided introductory presentation of industry-developed shielding MOE examples by applying the NRC's new licensing review practices and looking forward to subsequent implementation of these practices.

The two MOE examples as discussed during the workshop were developed by NEI's industry members: Holtec International, and TN Americas, respectively. For both examples, the industry outlined a number of proposed updates relevant to facility documentations, including Final Safety Analysis Report, Technical Specifications, Certificate of Compliance, and other site-specific reports. The industry then gave a presentation regarding its perspective related to the spent fuel performance margin with the new MOE in mind, and described the content of the Core Operations Limits Report pertaining to 10 CFR Part 50, associated applicability to 10 CFR Part 72, and its vision for the cask documentation.

The NRC staff summarized the November 6, 2020, workshop on Spent Fuel Performance Margins by sharing upcoming plans including a meeting being planned between NRC and the industry in December 2020, as well as an anticipated submission of a proposed topical report and a pilot for the proposed amendment, both expected from the industry. The NRC staff shared a summary chart which detailed technical topics related to the NEI's November 8, 2019, white paper, with requested regulatory products, and associated milestones for the NRC and the industry. The staff and industry continued to refine project plans and identify next steps for enhancing spent fuel storage licensing.

At the end of the workshop, the NRC staff provided an opportunity for the members of the public to comment or ask questions regarding NRC's regulatory process related to the topics discussed. A member of the public shared a general comment with the NRC staff. The comment expressed did not require follow-up by NRC staff.

More than 50 individuals from industry, vendor groups, public citizens, and NRC staff attended the workshop (some participating in portions only) via WebEx and telephone bridge line. The NRC staff is planning future workshops to continue efforts on the NEI white paper recommendations.