



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

December 8, 2021

MEMORANDUM TO: Steven Lynch, Acting Chief
Advanced Reactor Policy Branch
Division of Advanced Reactors and Non-Power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

A handwritten signature in black ink, appearing to read "J. Sebrosky".

Signed by Sebrosky, Joseph
on 12/08/21

FROM: Joseph M. Sebrosky, Senior Project Manager
Advanced Reactor Policy Branch
Division of Advanced Reactors and Non-Power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF NOVEMBER 9, 2021, PUBLIC MEETING TO DISCUSS
TECHNOLOGY INCLUSIVE CONTENT OF APPLICATION PROJECT

On November 9, 2021, the U.S. Nuclear Regulatory Commission (NRC) staff held a public meeting with stakeholders to discuss the technology inclusive content of application project (TICAP). The meeting notice is available in the NRC's Agencywide Documents Access and Management System (ADAMS) at Accession No. ML21274A031, and the presentation slides are available at ADAMS Accession No. ML21312A034. The enclosure to this summary provides the attendees for the meeting as captured by Microsoft Teams.

The purpose of this meeting was to discuss with stakeholders issues related to the Nuclear Energy Institute (NEI) Technical Report 21-07, Revision 0, "Technology Inclusive Guidance for Non-Light Water Reactors Safety Analysis Report Content for Applicants Using the NEI 18-04 Methodology" (ADAMS Accession No. ML21250A378). This meeting was a follow-on meeting to previous public TICAP meetings held on:

- May 11, 2021 (meeting summary available in ADAMS at Accession No. ML21132A295)
- May 19, 2021 (meeting summary available in ADAMS at Accession No. ML21154A290)
- May 26, 2021 (meeting summary available in ADAMS at Accession No. ML21158A223)
- June 23, 2021 (meeting summary available in ADAMS at Accession No. ML21181A335)
- August 17, 2021 (meeting summary available in ADAMS at Accession No. ML21245A442)
- October 5, 2021 (meeting summary available in ADAMS at Accession No. ML21301A189)

During the meeting, the NRC staff referred to the following two documents based on its review of NEI 21-07, Revision 0:

CONTACT: Joseph Sebrosky, NRR/DANU
301-415-1132

- A draft table containing proposed exceptions, clarifications and additions related to NEI 21-07, Revision 0 (ADAMS Accession No. ML21274A032)
- NRC detailed comments related to NEI 21-07, Revision 0 (ADAMS Accession No. ML21274A031)

Meeting Highlights

The four focus areas of discussion during the meeting were based on the exceptions, clarifications, and additions related to NEI 21-07, Revision 0, and included:

- Scope and level of details of probabilistic risk assessment (PRA) information in the safety analysis report (SAR)
- Human actions described in the SAR
- Defense-in-depth information in the SAR
- Level of information in the SAR for anticipated operational occurrences (AOOs), design basis events (DBEs), and beyond-design basis events (BDBEs)

Regarding the first two issues (PRA and human action information to be included in the SAR), industry representatives described changes being considered to NEI 21-07, Revision 0 to address the NRC staff's underlying concern. Regarding the second two issues (defense-in-depth information in the SAR and level of information in the SAR for AOOs, DBEs, and BDBEs), industry was not proposing substantial changes to the guidance. The NRC staff stated that it would consider the information that industry provided during the meeting and decide if additional clarifications or changes to the NRC staff's proposed exceptions, clarifications, and additions table for these items was appropriate.

Industry stated that it was targeting providing a draft revision to NEI 21-07, Revision 0 around December 8, 2021, to support a future public meeting to discuss the document. The NRC staff and industry representatives discussed tentative plans to have another TICAP public meeting in the mid-December time frame. The NRC staff noted that it intended to provide an update to the TICAP draft regulatory guide white paper in the late November or early December 2021 time frame to support an Advisory Committee on Reactor Safeguards Future Plant Designs Subcommittee meeting in the mid-December time frame.

Enclosure:
Attendance List

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TECHNOLOGY INCLUSIVE CONTENT OF APPLICATION PROJECT
DATED: DECEMEBR 8, 2021

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NRC-001

OFFICE	NRR/DANU/UARP/PM	NRR/DANU/UARP/BC	NRR/DANU/UARP/PM
NAME	JSebrosky	SLynch	JSebrosky
DATE	11/29/2021	12/7/2021	12/8/2021

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**November 9, 2021, Public Meeting to Discuss
Technology Inclusive Content of Application Project**

Attendance List*

NAME	AFFILIATION	NAME	AFFILIATION
Mohamed Shams	NRC/NRR/DANU	Amir Afzali	Southern Company
John Segala	NRC/NRR/DANU	Brandon Chisholm	Southern Company
Martin Stutzke	NRC/NRR/DANU	Ben Holtzman	Nuclear Energy Institute (NEI)
Steven Lynch	NRC/NRR/DANU/UARP	Mark Nichol	NEI
William Reckley	NRC/NRR/DANU/UARP	Kati Austgen	NEI
Eric Oesterle	NRC/NRR/DANU/UARP	Steven Nesbit	LMNT Consulting
Juan Uribe	NRC/NRR/DANU/UARP	Ed Wallace	GNBC Associates
Joe Sebrosky	NRC/NRR/DANU/UARP	Neil Haggerty	Excel
Prosanta Chowdhury	NRC/NRR/DANU/UARP	Frank Akstulewicz	A to Z Reactor Consulting Services
Maryam Khan	NRC/NRR/DANU/UARP	Dennis Henneke	GE Power
Stephen Philpott	NRC/NRR/DANU/UARP	Karl Fleming	KNF Consulting
Arlon Costa	NRC/NRR/DANU/UARP	Raymond Wang	X-energy
Amy Cabbage	NRC/NRR/DANU/UARP	Jon Facemire	X-energy
Belkys Sosa	NRC/NRR/DANU/UARP	Steve Vaughn	X-energy
Eric Bowman	NRC/NRR/DANU/UARL	Edwin Lyman	Union of Concerned Scientists
Michael Orenak	NRR/NRR/DANU/UTB1	Chet Austin Sigmon	Duke Energy
Hosung Ahn	NRC/NRR/DANU/UTB1	Christopher Courtenay	Duke Energy
Alexander Chereskin	NRC/NRR/DANU/UTB1	Amanda Spalding	Westinghouse
Alexandra Siwy	NRC/NRR/DANU/UART	George Flanagan	ORNL
Timothy Lupold	NRC/NRR/DANU/UTB1	Farshid Shahrokhi	Not Available (NA)
Hanh Phan	NRC/NRR/DANU/UTB2	Jason Christensen	NA
Boyce Travis	NRC/NRR/DANU/UART	Robert Youngblood	NA
Ian Jung	NRC/NRR/DANU/UTB1	Richard Paese	NA
Tim Drzewiecki	NRC/NRR/DANU/UTB1	Tanju Sofu	NA
Ed Miller	NRC/NRR/DORL/LPL2-1	Mike Keller	NA
Robert Roche-Rivera	NRC/RES/DE/RGPMB	Scott Nelson	NA
Matthew Gordon	NRC/RES/DE/MEB	Lisa Peterson	NA
Caty Nolan	NRC/OEDO/AO	Paul Loza	NA
Shakur Walker	NRC/COMM/DW	Michael Mayfield	NA
Henry Marchiewski	OCHCO/ADHRTD/NRANB	Charlotte Geiger	NA
Bob Weisman	NRC/OGC	Ben Chen	NA
Marcia Carpentier	NRC/OGC	Scott Ferrara	NA
Carolyn Wolf	NRC/OCA	David Daigle	NA
Tom King	Idaho National Lab (INL)	M Staiger	NA
Derek Widmayer	NRC/ACRS	Mark Ring	NA
Jim Kinsey	INL	Rob Burg	NA
Chris Chwasz	INL	Shayan Shahbazi	NA
Tom Hicks	INL	Prasad Kadambi	NA

NAME	AFFILIATION	NAME	AFFILIATION
Ewa Muzikova	NA	Alan Levin	NA

* Attendance list based on Microsoft Teams Participant list. List does not include 2 individuals that connected via phone.