



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

August 18, 2022

MEMORANDUM TO: Richard Chang, Chief
Licensing Processes Branch
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

FROM: Leslie C. Fields, Senior Project Manager **/RA/**
Licensing Processes Branch
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF THE JUNE 21, 2022, US NUCLEAR
REGULATORY COMMISSION PUBLIC MEETING WITH
INDUSTRY TO DISCUSS ITEMS PERTAINING TO DIVERSE
AND FLEXIBLE COPING STRATEGIES (FLEX) DATA ANALYSIS

On June 22, 2021, the U.S. Nuclear Regulatory Commission (NRC) staff conducted a public meeting with industry representatives to discuss the latest developments in crediting Diverse and Flexible Coping Strategies (FLEX) in risk-informed applications. The meeting notice and agenda for the June 21, 2022, public meeting are available in the NRC's Agencywide Documents Access and Management System (ADAMS) at the accession number shown below. A list of meeting attendees is enclosed in this summary.

Background

By memorandum dated May 30, 2017 (ADAMS Accession No. ML17031A269), the NRC staff provided an initial assessment of Nuclear Energy Institute's (NEI's) guidance entitled, NEI 16-06, "Crediting Mitigating Strategies in Risk-Informed Decision Making." By memorandum (ADAMS Accession No. ML22014A084) dated May 6, 2022, the NRC staff presented an updated assessment of the industry guidance for crediting mitigating strategies in probabilistic risk assessments (PRAs). The memorandum stated that the NRC supports enhancing safety through the expanded use of FLEX and continues to provide credit for FLEX in both licensing and oversight. The updated assessment provides a consistent and predictable approach in crediting FLEX in regulatory licensing applications. When developing risk-informed applications that credit mitigating strategies in PRAs, the licensees that reference and apply the updated NRC assessment will likely minimize the need for requests for additional information (RAIs) in future license application submittals.

CONTACT: Leslie C. Fields, NRR/DORL
(301) 415-1186

Purpose

The purpose of the public meeting was to provide details on the NRC's updated assessment to industry representatives and the public.

During the meeting, the NRC staff gave a slide presentation on the latest updates for each conclusion identified in the initial assessment which pertains to the following areas: (1) scope (conclusion 1), (2) PRA upgrade (conclusions 2 and 3), (3) data analysis (conclusions 4-10), and (4) Human Reliability Analysis (HRA) (conclusions 11-13).

Conclusion

At the conclusion of the meeting, it was stated that the licensees who address the NRC's concerns as outlined in the NRC's updated assessment for modeling FLEX in PRAs could reduce or eliminate the number of RAIs pertaining to how FLEX is modelled in the PRA for the risk informed application.

No regulatory decisions or commitments were made during the meeting. No public comments were received during the public comment period.

Please direct any inquiries to me at (301) 415-1186 or by e-mail at leslie.fields@nrc.gov.

Enclosure:
List of Attendees

LIST OF ATTENDEES

Nuclear Regulatory Commission
Leslie Fields
Meena Khanna
Antonios Zoulis
Robert Pascarelli
Michelle Kichline
Edgardo Torres
Mihaela Biro
Joshua Havertape
John Hughey
Eric Bowman
Kristy Bucholtz
Neil Sheehan
John Lane
Malcolm Patterson
April Pulvirenti
Keith Tetter
Adrienne Brown
Jonathan Evans
Todd Hilsmeier
David Werkheiser
Industry Representatives
Victoria Anderson
Bradley Dolan
Roy Linthicum
Russell Jones
Lincoln Sarmanian
Byran Carroll
Michael Zelanak
Mary Presley
Matthew Degonish
Joey Clark
In Young
Michael Henshaw
Robert Rishel
Maribel Valdez
Rob Burg
Lisa Gerken
Ryan Walke
Donald Vanover
Vera Christopher
Jeffrey Julius
Matthew Degonish
Melinda Higby
Drew Richards
Susan Loyd
Kirsten Kaspar

Enclosure

Industry Representatives Cont'd
Vish Patel
Carroll Trull
Andrew Lipetzky
Mark Thigpen
Oleg Boychenko
Clem Litterton
Tim Sande
Kaven Lui
Josh Kaffel
Justin Hiller
Michael Cymbor
John Weglian
Gary DeMoss
Brian Burgio
Damian Mirizio
Francis Peterson
Jared Hufnal
Edwin Lyman
Christopher De Rego
Matthew Wilmers
Philip J Tarpinian
Raymond Schneider
Members of the Public
Jana Bergman
Jim Gleason
Alberto Herranza
Sergio Courtin
Chris Peckat
Jeffrey Stone
Andrew Thomas
Jayne Ritter
Jason Hall
John Richards
John Pfabe

SUBJECT: SUMMARY OF THE JUNE 21, 2022, US NUCLEAR REGULATORY COMMISSION PUBLIC MEETING WITH INDUSTRY TO DISCUSS ITEMS PERTAINING TO DIVERSE AND FLEXIBLE COPING STRATEGIES (FLEX) DATA ANALYSIS DATED AUGUST 18, 2022

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RidsNrrLADHarrison	JHughey, NRR	THilsmeier, NRR
LFields, NRR	EBowman, NRR	DWerkheiser, RI
RChang, NRR	KBucholtz, NRR	
MKichline, NRR	NSheehan, OPA	

ADAMS Accession Nos.:**ML22222A204 (Package)****ML22167A122 (Meeting Notice)****ML22167A082 (Presentation Slides)****ML22222A203 (Meeting Summary)****ML17031A269 (2017 Memo)****ML22014A084 (2022 Memo)*****by email**

OFFICE	NRR/DORL/LLPB/PM*	NRR/DORL/LLPB/LA*	NRR/DRA/APOB/BC*	NRR/DORL/LLPB/BC*
NAME	LFields	DHarrison	AZoulis	RChang
DATE	8/12/2022	8/12/2022	8/12/2022	8/18/2022

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