

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

December 8, 2020

MEMORANDUM TO:	John P. Segala, Chief Advanced Reactor Policy Branch Division of Advanced Reactors and Non-Power Production and Utilization Facilities Office of Nuclear Reactor Regulation
FROM:	Jordan P. Hoellman, Project Manager / RA / Advanced Reactor Policy Branch Division of Advanced Reactors and Non-Power Production and Utilization Facilities Office of Nuclear Reactor Regulation
SUBJECT:	SUMMARY OF AUGUST 20, 2020, ADVANCED REACTOR STAKEHOLDER PUBLIC MEETING

On August 20, 2020, the U.S. Nuclear Regulatory Commission (NRC) held a Category 2 public meeting with industry stakeholders, including the Nuclear Energy Institute (NEI) and the U.S. Nuclear Industry Council (USNIC), to discuss ongoing initiatives related to the development and licensing of non-light-water reactors (non-LWRs or advanced reactors). The staff has posted the meeting notice in the NRC's Agencywide Documents Access and Management System (ADAMS) at Accession No. ML20232D199 and the presentation slides at Accession No. ML20232D114. Enclosure 1 lists the meeting attendees who participated remotely.

NRC staff provided an overview of the Advanced Reactor Integrated Schedule of Activities on the NRC's public website at <u>https://www.nrc.gov/reactors/new-</u> <u>reactors/advanced.html#advSumISRA</u>. The staff specifically noted the activities that have recently been completed or that have been added since the June 18, 2020, advanced reactors stakeholder meeting.

Argonne National Laboratory staff provided a presentation on their report, "Assessment of Tritium Detection and Control in Molten Salt Reactors [MSRs]" (ADAMS Accession No. ML20157A155), which was developed (1) to assist the NRC in expanding capacity and capabilities for licensing non-LWRs through knowledge base and skillset development, (2) to provide a technical assessment of tritium behavior in MSRs, and (3) to provide related regulatory considerations.

Enclosure: List of Attendees

CONTACT: Jordan Hoellman, NRR/DANU 301-415-5481

The NRC staff and Idaho National Laboratory (INL) staff provided a presentation on the INL report, "Technology-Inclusive Determination of Mechanistic Source Terms [MSTs] for Offsite Dose-Related Assessments for Advanced Nuclear Reactor Facilities" (ADAMS Accession No. ML20192A250). The report was developed to support the NRC's non-LWR vision and strategy near-term implementation action plans and to support the NRC's implementation of strategies to respond to the Nuclear Energy Innovation and Modernization Act (NEIMA).

The NRC staff provided an update on its activities related to advanced reactor source term and the pilot studies that are planned in 2020 and 2021. The project objectives are to develop an understanding of non-LWR beyond-design-basis-accident behavior and to demonstrate application of the NRC's modeling and simulation codes, MELCOR and SCALE, for non-LWR technologies. The NRC uses MELCOR and SCALE to model severe accident behavior, including the retention or attenuation of radionuclides by plant systems and structures, in the resolution of safety concerns and evaluation of possible regulatory actions. The NRC staff plans to conduct public workshops in 2021 to facilitate dialogue with stakeholders on the NRC staff's approach to assessing source term for non-LWR technologies using MELCOR and SCALE.

NEI provided a discussion on annual fee regulations for non-LWRs. NEI discussed their preferred annual fee rule approach, which consists of expanding the small modular reactor (SMR) variable fee structure to include non-LWRs and to address disproportionate impacts to micro-reactors. NEI noted that they are working on an NEI position paper on non-LWR annual fees, that they expect to release soon.

The NRC staff provided an overview of its plans to complete a rulemaking to establish a technology-inclusive, regulatory framework for optional use for commercial advanced nuclear reactors (Part 53), as required by NEIMA. The staff provided an overview of Part 53 rulemaking plan (SECY-20-0032, ADAMS Accession No. ML19340A056), which describes the staff's expectation for extensive interactions with external stakeholders and the Advisory Committee on Reactor Safeguards (ACRS) on the content of the rule. The staff discussed Part 53 rulemaking objectives and noted that they developed a white paper (ADAMS Accession No. ML20195A270) to support discussions with the ACRS and other stakeholders. The staff is awaiting Commission decision on the rulemaking plan and scheduling public meetings dedicated to developing Part 53.

NEI provided their perspectives on the Part 53 rulemaking, noting that industry's activities include an evaluation of the Atomic Energy Act (AEA) and that they envision a new Part 53 safety paradigm that creates a new bridge from the AEA to Part 53, promotes flexibility and efficiency, and evaluates international regulatory paradigms. NEI encouraged the NRC to evaluate the existing regulatory framework to identify what should be new for, and what could be incorporated into, Part 53.

USNIC provides their perspectives on the Part 53 rulemaking, noting that USNIC welcomes the opportunity to engage with NRC to develop Part 53 and will be providing NRC with 50 comments addressing each of the 14 issues described in the NRC white paper. USNIC discussed that the goal of Part 53 should be to craft a technology-inclusive, flexible regulatory framework that is so well defined that developers want to use it over the existing Part 50 and Part 52 frameworks.

The NRC staff provided a status update for its spent fuel reprocessing rulemaking, including the background, current status, and next steps. The staff plans to inform the Commission of its

recommendation regarding any proposed rulemaking for spent fuel reprocessing on or before March 31, 2021, and encourages early interactions from developers on anticipated needs or activities involving reprocessing. Following the meeting, the staff was notified by the American Nuclear Society (ANS) that the representation of ANS's letter should be clarified because the NEI and ANS positions were not identical. ANS position is summarized as follows:

While no new reprocessing facilities are planned in the United States at this time, this in itself should not be the rationale for suspending rulemaking. Rulemaking is a deliberative process, and it is important to establish a comprehensive regulatory framework prior to any license application being submitted. Moreover, completing the reprocessing rulemaking would support future options for, and potential innovations toward, used fuel management as well as clean energy generation using advanced reactors.

The NRC staff provided an overview of the Oak Ridge National Laboratory report, Proposed Guidance for Preparing and Reviewing a Molten Salt Non-Power Reactor Application" (ADAMS Accession No. ML20219A771), which was developed in response to NEIMA as the NRC staff identified an opportunity to enhance its readiness to license non-power reactors that will use MSR technology. The staff noted that they plan to endorse the report for use by potential non-power MSR applicants by January 2021 and that subsequently, the report will likely be incorporated in the next revision of NUREG-1537, "Guidelines for Preparing and Reviewing Applications for the Licensing of Non-Power Reactors."

The meeting ended with an open discussion. The NRC requested feedback about how these meetings can be more engaging and how to increase participation by prospective applicants. The next advanced reactors stakeholder meeting would be scheduled in October 2020. The staff also reminded stakeholders of the workshop on Enhancing Risk-Informed and Performance-Based Seismic Safety for Advanced Non-Light Water Reactors scheduled for September 2-3, 2020.

SUBJECT: SUMMARY OF AUGUST 20, 2020, ADVANCED REACTOR STAKEHOLDER PUBLIC MEETING DATED: DECEMBER 8, 2020

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ADAMS Accession No.: ML20317A303

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OFFICE	NRR/DANU/UARP/PM	NRR/DANU/UARP/BC	NRR/DANU/UARP/PM
NAME	JHoellman	JSegala	JHoellman
DATE	11/19/2020	11/23/2020	12/8/2020

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PUBLIC MEETING U.S. NUCLEAR REGULATORY COMMISSION Thursday, August 20, 2020 10:00 a.m. – 3:00 p.m.

List of Attendees (on phone) Blank Fields = Indecipherable Information		
Name	Organization	
Amy Cubbage	U.S. Nuclear Regulatory Commission (NRC)	
John Segala	NRC	
Jordan Hoellman	NRC	
Hanh Phan	NRC	
Jo Jacobs	NRC	
Christy Galster	NRC	
Bill Reckley	NRC	
Jason Shaparow	NRC	
Eric Oesterle	NRC	
Ben Beasley	NRC	
Martin Stutzke	NRC	
Juan Uribe	NRC	
Victoria Anderson	NRC	
Michelle Gonzalez	NRC	
Tim Lupold	NRC	
Andrea Kock	NRC	
Jonathan Marcano	NRC	
Anthony Rossi	NRC	
Adrian Muniz	NRC	
Mo Shams	NRC	
Kati Austgen	Nuclear Energy Institute (NEI)	
Marc Nichol	NEI	
Cyril Draffin	U.S. Nuclear Industry Council (USNIC)	
Dave Grabaskas	Argonne National Laboratory (ANL)	
Kurt Vedros	Sandia National Laboratory (SNL)	
Marlon Bosca		
Hong Bin		
Billy Blamey		
Andre Alfonzo		
Tanju Sofu	ANL	
William Kennedy	NRC	
Greg Casto	NRC	
Nan Valliere	NRC	

Alex Runner	Oklo, Inc
Alice Caponiti	US Department of Energy (DOE
Aaren Sida	BRC
Agustus	Kairos Power
Alan Kuritzky	NRC Office Of Research
Alex Chereskin	NRC
Alex Hashemian	AMS
Alex Renner	OOKLA INC
Alyssa Beasoey	NRC
Alyssa Easley	NRC
Amir Afzali	Southern Company
Andrea	NRC
Andrew Barto	USNRC
Andrew Clark	Sandia National Laboratories
Andy Zock	Senate
Anthony Bowers	NRC
Antonio	NRC
Antonio Barrett	NRC
April Rice	ELS
Ark Rictar	NEI
Ashley Meredith	NRC
Augustus Merwin	Augustus Merwin
Ben Beasley	NRC
Bhet Sigmon	Duke Energy
Bill Horack	Brook Haven National Laboratory
Bob Fitzpatrick	USNRC
Brad Beeny	Sandia National Labs
Brandon Marlow	Southern Nuclear
Brian Johnson	Terra Power
Brian Smith	NRC
Brian Thomas	NRC
Casper Son	NRC
СВА	CBA
Charles Heck	GNF
Chris Faucet	Sandia National Labs
Chris Van Wert	NRC
Clint Medlock	Southern Company
Corey Dukehart	NRC
Damon Miranda	Okla
Dan Barss	NRC
Dan Clayton	Sandia National Labs
Dan Vars	NRC
Dana Daughtery	NRC

Dana Dorty	NRC	
Daniel Aushew	NRC	
Daniel Jew	NRC	
Darrell Gardner	Karios Power	
David Bars	NRC	
David Desaulniers	NRC	
David Hindera	GE Hitachi	
David Hindes	DEH	
David Louie	MDNS Laboratory	
David Luxat	Sandia National Labs	
Dawn Alver	NRC	
Derrek Widyamer	NRC	
Don Algama	NRC	
Donald Palmrose	NRC	
Donna Williams	NRC	
Douglas Osborn	Sandia Labs	
Earl Saito	GEH	
Ed Mckenzie	ID National Laboratory	
Ed Wallace	GMBC Associates	
Edwin Lyman	Union of Concerned Scientists	
Eric Oesterle	NRC	
Eric Schrader	NRC	
Esse Grayseefur	NRC	
Evans Modnay	NRC	
Everett Redmond	NEI	
Farshid Shahrokhi	Framatome	
Fred Gelbard	Sandia National Labs	
Frostie White	GE	
Gary Jenkins	NRC	
George Wadkins	GE Hitachi	
Gustavo Reyes	ID National Laboratory	
Guzmo Siddique	NRC	
Hassan Quidambi	Consultant	
Hossein Smilie	US NRC	
Hunt Phan	NRC	
Husain Esmile	NRC	
lan Jung	NRC	
Irene Wu	NRC	
Jamal Malmond	SNL	
James Hammelman	NRC	
James Rubenstone	NRC	
Jana Bergman	Curtis-Wright	
Jane Mazza	NRC	

Jane Opamondo	Morgan Lewis
Jason Chaparo	NRC
Jason Christensen	ID National Laboratory
Jason Redd	Southern Nuclear
Jeffrey Schmidt	NRC
Jennifer Leute	Sandia National Labs
Jim Hammelman	NRC
Jim Kinley	Idaho National Labs
Joanna Mcfarlane	Oak Ridge National Laboratory
Joe Giacinto	NRC
John Bolin	General Atomics
John Bolton	Sanida National Labs
John Bowlen	General Atomics
John Masse	NRC
John Tomon	NRC
Jon Barr	NRC
Jong Chang	Terra Power
Jordan Hagueman	Kairos Power
Juan Arella	RC
Kace Gonsonny	Member of the Public
Kamel	Southern Conference
Karen Sida	OAC
Kasaad Kadamby	Consultant
Kayla Gamin	NRC
Keith Compton	US NRC
Kenneth Armstrong	US NRC
Kenneth Wagner	MD National Labs SNL
Kim Weber	nark
Larry Humphries	Sandia National Labs
Leanna Gulonick	Public Citizen
Len Moe	ID National Laboratory
Louis Caponi	NRC
Louis Lanese	GE Hitachi
Lucks Albright	San Dia
Lynn	ID National
Mallecia Sutton	NRC
Margaret Ellenson	Kairos Power
Margaret Wilson	Kairos Tower
Marilyn Diaz	NRC
Marsha Carpentier	NRC
Martain Stuskey	NRC
Martin Karr	Centrus Energy Corp
Martin O'Neill	NEI

Matthew Denman Karios Power Meraj Rahimi NRC Michelle Gozalez NRC Michelle Hart NRC Michelle Hayes NRC Mike Kay NRC Mike Kay NRC Mike Kay NRC Mike Kay NRC Mike Mayfield Self Mike Poore ORNL Mu Magadee NRC Nathan Peck GE Hitachi Nicholas Moran Attorney Nuclear Regulatory Staff Nicholas Moran Attorney Nuclear Regulatory Staff Nicholas Moran Attorney Nuclear Regulatory Staff Nicole Layhey Pacific NW National Lab Nicole Schvit Kairos Nu Volly Pacific NW National Laboratories Olive Runner Okio Inc Pamale Branon US NRC Peta Gaillard Perra Power Peyton Douv USNRC Philly E NRC Prasad Pradanvi Consultant Provided Earlier TEA Randail Belles ORNL Richard Rivera US NRC </th <th>Maryam Khan</th> <th>NRC</th>	Maryam Khan	NRC
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Rod Mccullum Nuclear Energy Institute		
	Rudy Norwiggy	

Russ Felts	NRC
Ryan Henderson	Southern Nuclear
Sam Duadrado	NRC
Scott Bussey	USNRC
Scott Pfeffer	GE Hitachi
Shakur Moore	NRC
Shawn Harwell	NRC
Shayan Shahabizi	OR National Laboratory
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Steve Skutmik	Oak Ridge National Laboratory
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Tammy Moran	
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Tom King	INL
Tom Voice	NRC
Tony Naknishi	Commission Office
Travis Chapman	X-energy
Tyler Beck	NRC
Valerie Gray	NRC
Wayne	ID National Lad
Wendy Reed	US NRC
William Kennedy	NRC
Williiam Wieselquist	Oak Ridge National Lab
Wing Mo	ID National
Zander Nausol	Terra Power