

UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

October 6, 2020

MEMORANDUM TO: Benjamin G. Beasley, Chief

Advanced Reactor Licensing Branch

Division of Advanced Reactors and Non-Power

Production and Utilization Facilities
Office of Nuclear Reactor Regulation

FROM: Mallecia A. Sutton, Senior Project Manager /RA/

Advanced Reactor Licensing Branch

Division of Advanced Reactors and Non-Power

Production and Utilization Facilities
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF AUGUST 25, 2020, ADVANCED REACTOR

STAKEHOLDER PUBLIC MEETING

On August 25, 2020, the U.S. Nuclear Regulatory Commission (NRC) held a Category 2 public meeting with industry stakeholders, including the Nuclear Energy Institute (NEI), the U.S. Nuclear Industry Council (USNIC) and ClearPath, to discuss ongoing initiatives related to the development of the Generic Environmental Impact Statement (GEIS) for advanced reactors. The staff has posted the meeting notice in the NRC's Agencywide Documents Access and Management System (ADAMS) at Accession No. ML20237F559 and the presentation slides at Accession No. ML20237F430. This was a teleconference meeting, and an attempt was made to capture a list of the attendees as they called into the meeting. The Enclosure to this summary provides the attendees for the meeting as captured by the operator that helped to facilitate the meeting.

In a *Federal Register* Notice on April 30, 2020, the staff requested public comments on our plans to develop an advanced reactor GEIS. The NRC received several comments from the public, including comments from industry stakeholders. The meeting provided a venue for NEI, USNIC and ClearPath to provide clarification on their submitted comments.

During the meeting, the staff provided a status update on the GEIS development. The staff discussed next steps, which include the issuance of the compilation of scoping comments in September 2020 and issuance of the draft GEIS for comment in May 2021. The staff anticipates publishing the final GEIS in May 2022.

Enclosure: List of Attendees

CONTACT: Mallecia Sutton, NRR/DANU

301-415-0673

The USNIC discussed that the GEIS should include advanced nuclear reactors (ANRs) regardless of technology. The USNIC recommends that the GEIS scope includes Generation III+ and Generation IV designs, including water-based Small Modular Reactors, Compact Fast Reactors, High Temperature Gas Reactors (HTGR), Molten Salt Reactors (MSR), Sodium Fast Reactors (SFR), and Lead-cooled Reactors (LFR). This is especially appropriate if SMRs "fit into" the "buckets" (Plant Parameter Envelope (PPE)) NRC chooses for Advanced Reactors in the GEIS. The USNIC encourages the NRC to expand the value for PPE. It was also suggested that the staff should take credit for significant work already done that can support the development of an advanced reactors GEIS, such as the license renewal GEIS and the recent Clinch River Early Site Permit (ESP) Environmental Impact statement (EIS)

The NEI proposed that the original scope (as discussed in the April 30, 2020, Notice of Intent) for the ANR GEIS is too narrow to achieve optimal benefit to the industry and the NRC. The NEI recommended that the scope of the GEIS should be as technology inclusive as possible. The GEIS should not be exclusive to very small power levels. The NEI also recommended that the structure of the GEIS should be performance-based, consequence-oriented parameters to include bounding assumptions based on previous agency National Environmental Policy Act (NEPA) analyses. It was also recommended that NRC follow its established use of GEISs and associated Part 51 rulemakings, particularly in the light water reactor (LWR) license renewal and spent fuel continued storage contexts, which underscore the viability and efficacy of the generic analysis method. The NRC staff should also fully leverage prior NRC environmental analyses. Using performance-based criteria, an ANR GEIS could generically address many common environmental impacts for a much broader range of technologies.

ClearPath stated that it is important for the NRC to incorporate performance-based requirements, based on decades of operating experience and other reviews, into the development of the GEIS. The GEIS should be technology inclusive, including not only non-LWRs, but at least LWR SMRs as well. It was also emphasized that staff should conduct future outreach activities before issuing the official draft GEIS by May 1, 2021.

During the comment portion of the meeting, other commenters stated generic opposition to the GEIS. Commenters stated that the advanced reactors don't exist and therefore a GEIS was premature.

The staff discussed the current GEIS schedule and next steps. The staff noted that they would consider these comments and all other comments as they develop the GEIS. Specifically, the staff noted that the comments were detailed and that they understood the comments. The staff also expressed appreciation for the amount of effort that the presenters and commenters had undertaken in order to prepare the comments and for their participation in the NEPA process.

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 will be scheduled in October 2020.

SUBJECT: SUMMARY OF AUGUST 25, 2020, ADVANCED REACTOR STAKEHOLDER

3

PUBLIC MEETING DATED: OCTOBER 6, 2020

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*via e-mail

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NAME	MSutton	SLent	BBeasley	MSutton
DATE	9/16/2020	9/17/2020	10/2/2020	10/6/2020

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PUBLIC MEETING U.S. NUCLEAR REGULATORY COMMISSION Wednesday, August 25, 2020 1:00 p.m. – 3:00 p.m.

List of Attendees (on phone)			
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		
Donna Williams	NRC		
Eric Oesterle	NRC		
Ben Beasley	NRC		
Martin Stutzke	NRC		
Juan Uribe	NRC		
Victoria Anderson	NRC		
Michelle Gonzalez	NRC		
Tim Lupold	NRC		
Adrian Muniz	NRC		
Kati Austgen	Nuclear Energy Institute (NEI)		
Alex Renner	Oklo, Inc. (Oklo)		
Alice Caponiti	US Department of Energy (DOE)		
Alyssa Beasley	NRC		
Amir Afzali	Southern Nuclear		
Anders Gilbertson	NRC		
Andrea Gennetta	F&P Global Platts		
Andrew Barto	NRC		
Anthony Rossi	NRC		
Antonio Barrett	NRC		
Bob Fitzpatrick	NRC		
Brandon Chisholn	Southern Company		
Brandon Waits	Southern Company		
Brian Glowacki	NRC		
Brian Henderson	Boeing Company		
Brian Smith	NRC		

Bruce McDowell Carol Moyer Carol Moyer NRC Charles Mahon Project Management Institute Chris Van Wert NRC Christine Galster Cyril Draffin US Nuclear Industry Council Dan Barss NRC Daniel Carls Terrestrial Energy US Daniel Miller Darrell Gardner Dave Goodwin Dave Grabaskas Argonne National Lab David Holcomb Oak Ridge National Laboratory Deb Ludhinger Derek Widmayer Derek Widmayer Derek Widmayer Denelbes Edward File Elithium Industry USA Edwin Lyman Frank Schaaf AsSME Code Member George Flanagan Oak Ridge National Laboratory Description Oak Ridge National Laboratory NRC Don Helton NASA Donald Palmrose Draw Peebles Edward File Elithium Industry USA Edwin Lyman Union of Concerned Scientists Farshid Shahrokhi Framatome Frank Schaaf ASME Code Member George Flanagan Oak Ridge National Laboratory NRC NRC NRC David Melecom NRC NRC NRC NRC Donald Palmrose NRC	Brian Thomas	NRC
Carol Moyer Charles Mahon Project Management Institute Chris Van Wert Christine Galster NRC Cyril Draffin US Nuclear Industry Council Dan Barss NRC Daniel Carls Daniel Miller Darrell Gardner Dave Goodwin Dave Grabaskas David Desaulniers David Holcomb Deb Ludhinger Derek Widmayer Derek Widmayer Derebles Edward File Elithium Industry USA Edwin Lyman Frank Schaaf George Flanagan Garcia Jack Cushing Jack Cushing James Tompkins Jason Read Jason Shay Jaco Winc Jacc Vinc Jason Jason Jaron Winc C Jason Jason Jason Jason Read Jason Read Jason Shay NRC Janna Minc Janna Graci Jason Read Jason Shay NRC Janna Brigman Janna Graci Jason MRC Janna Brigman Janna Gurica Jason Shay NRC Janna Brigman Janna Graci Jason Winc Janna Graci Jason MRC Janna Brigman Janna Gurica Janna Graci Jann	Bruce McDowell	Pacific Northwest National Laboratory
Chris Van Wert Christine Galster Cyril Draffin US Nuclear Industry Council Dan Barss NRC Daniel Carls Terrestrial Energy US Daniel Miller Darrell Gardner Dave Goodwin Dave Grabaskas David Desaulniers David Holcomb Dave Ridge National Laboratory Deb Ludhinger Derek Widmayer Derek Widmayer Derek Widmayer Derek Ward File Edwin Lyman Frank Schaaf ASME Code Member George Flanagan Grace Kim NRC Arlon Costa Ian Jung Ismael Garcia Jack Cushing Jack Cushing Jack Cushing NRC James Rubenstone NRC	Carol Moyer	NRC
Christ Van Wert Christine Galster NRC Cyril Draffin US Nuclear Industry Council Dan Barss NRC Daniel Carls Terrestrial Energy US Daniel Miller Darrell Gardner Dave Goodwin Dave Grabaskas David Desaulniers Derk Widmayer Derk Widmayer Don-Helton Donald Palmrose Drew Peebles Edward File Elithium Industry USA Edwin Lyman Frank Schaaf George Flanagan Grace Kim NRC Arlon Costa Ian Jung Ismael Garcia Jack Cushing Jack Cushing NRC James Rubenstone NRC NRC NRC NRC NRC NRC NRC Ook Ridge National Laboratory NRC NRC NRC Drew Peebles Edward File Elithium Industry USA Edwin Lyman Framatome Frank Schaaf ASME Code Member George Flanagan Oak Ridge National Laboratory NRC NRC NRC NRC NRC NRC NRC NRC NRC Arlon Costa Ian Jung NRC Ismael Garcia NRC James Rubenstone NRC James Rubenstone NRC James Rubenstone NRC Jana Bergman Curtiss Wright Jason Read Jason NRC Jason NRC Jason NRC Jason Read Southern Nuclear Jason Shay NRC Jason Wall	Charles Mahon	Project Management Institute
Cyril Draffin Dan Barss NRC Daniel Carls Daniel Miller Darrell Gardner Dave Goodwin Dave Grabaskas David Desaulniers Deb Ludhinger Derek Widmayer Don Helton Daniel Palmrose Drew Peebles Edward File Edwin Lyman Frank Schaaf George Flanagan Garce Kim Arlon Costa Ian Jung Jacob Zimmerman James Saldarini James Saldarini James Tompkins Jana Bergman Jason Read Jason Shay NRC Der Hullic Citizen Argenre Industry US NRC Derest Vidrage US Aurica Terrestrial Energy US NRC Derublic Citizen NRC Argenre Industry US NRC Darrestrial Energy US NRC Aurica Chain NRC Argenre National Lab Ashional Laboratory US Alerestrial Energy US Argenre VIDR Valie Citizen NRC Argenre National Laboratory NRC Advanced Reactor Concepts Jane Wall	Chris Van Wert	
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Jean Wall Jon Wnj	Jason Read	Southern Nuclear
,	Jason Shay	NRC
Jeff Gabor Jensen Hughes	Jean Wall	Jon Wnj
	Jeff Gabor	Jensen Hughes

Jennifer Meservy	Senator Crapos Staff Assistant
Jim Hammelman	NRC
Jim Kinsey	Idaho National Laboratory
Joe Giacinto	NRC
John Kutsch	Thorium Energy Alliance
John Monninger	NRC
Jonathan Marcano	NRC
Jordan Hagaman	Kairos Power
Joseph Anderson	NRC
Julia Gregorian	Hogan Lovelos
Jun Wang	Jun Wang
Keith Consani	Member of the Public
Ken Erwin	NRC
Kenneth Armstrong	NRC
Kim Webber	NRC
Kurt Harris	Flibe Energy Inc
Lars Jorgensen	Thorcon US
Laura Schwartz	ITTA
Laura Willingham	NRC
Leanne Galanek	NEI
Lee Grzeck	Duke Energy
Louise Lund	NRC
Madaline Feltus	DOE
Marilyn Kray	Exelon
Marilyn Sears	NRC
Mark Nichol	NEI
Meraj Rahimi	NRC
Michelle Albert	NRC
Michelle Catts	GE-Hitachi
Michelle Hart	NRC
Mike Poore	ORNL
Mehdi Reisi-Fard	NRC
Nan Vallierie	NRC
Nicholas McMurray	ClearPath
Patrick White	MIT
Paul Keutelian	Radiant
Peter Hastings	Kairos Power
Ranaad Samanka	Brookhaven National Laboratory
Richard Chang	NRC
Rick Paese	Westinghouse
Rob Taylor	NRC
Robert Roche-Rivera	NRC
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Lisa Matis	TETRA TECH	
Louis Caponi	NRC	
Margaret Ellenson	Kairos Power	
Martin O'Neil	NEI	
Maryam Khan	NRC	
Megan Wright	NRC	
Michael Rose	NRC	
Mitchell Maricque	None	
Nadim Khan	NRC	
Natalie Hotaylan	ClearPath	
Ryan Henderson	Southern Company	

Sarshid Shahrokhi	Framatome
Scott Clausen	Morgan Lewis
Shakura Wall	NRC
Shawn Campbell	NRC
Sid Neis	CBS
Stacy Wheeler	Alphatech
Steve Ruffin	NRC
Steve Schilthell	BWXT
Steven Dolly	SNP Global Platte
Wayne Moe	ANL
William Moore	Commission of Cook Leaders