

DOE NE-5 National Reactor Innovation Center

Program Review Agenda

Purpose: To facilitate program integration, provide context and high-level objectives, review the accomplishments over the past year, engage with stakeholders, solicit feedback, and to discuss FY25 work scope and priorities.

April 1, 2025 (All Day) – Location EIL A102		
Time	Topic	Presenters
8:00 – 8:15	Welcome and Logistics	Brad Tomer / AnnMarie Marshall
8:15 – 8:45	Opening Remarks from NE-5 and INL Leadership	Rian Bahran, DOE-NE
		Jess Gehin, INL
		Robert Boston, DOE-ID
		Ron Crone, INL
8:45 – 9:15	1. NRIC Program Update	Brad Tomer, INL
DOME		
DOME Panel (Adrian Collins, Chance Price, Curtis Nielsen, Aaron Balsmeier, Scott Smith)		
9:15 – 10:00	2. DOME Ecosystem	Adrian Collins, INL
	3. DOME Construction and Equipment and Infrastructure (E&I) Progress	Chance Price, INL
	4. DOME Test Reactor Fuel Cycle	Curtis Nielsen, INL
NRC Commissioner		
10:00 – 10:15	5. Remarks by US NRC Commissioner	Honorable US NRC Commissioner Annie Caputo
10:15 – 10:45	BREAK AND NETWORKING	
DOME FEEED and DEEP		
10:40 – 10:50	6. Preparation for Testing in DOME – Front End Engineering and Experiment Design (FEEED) – Detailed Engineering and Experiment Planning (DEEP)	Sam Reiss, INL
10:50 – 11:10	7. Westinghouse	Erin Orga, WEC
11:10 – 11:30	8. Radiant	Chanson Yang, Radiant
11:30 – 11:50	9. Antares	Jordan Bramble, Antares
11:50 – 12:10	10.Nano Nuclear	Florent Heidet, Nano Nuclear



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National Reactor
Innovation Center

April 1, 2025 (All Day) – Location EIL A102

Time	Topic	Presenters
12:10 – 1:30	LUNCH	
12:30 – 12:50	11. Experimental Infrastructure Presentations	MSTEC – Toni Karlsson, INL METL – Chris Grandy, ANL
12:50 – 1:10		
Digital Technology and Operations		
1:30 – 2:00	12. Digital Engineering	Peter Suyderhoud, INL Thomas Folk, INL Nathan Woodruff, INL Jack Cavaluzzi, INL Kolton Heaps, INL Jonah Clark, INL
2:00 – 2:15	13. Digital Documented Safety Analysis (DSA)	Jacob Rymer, INL
2:15 – 2:45	14. Virtual Test Bed (VTB)	Lise Charlot, INL / Tarek Zaki (NRC)
2:45 – 3:15	BREAK AND NETWORKING	
LOTUS		
3:15 – 3:35	15. LOTUS Design	Jacob Rymer, INL
3:35 – 4:00	16. Molten Chloride Reactor Experiment (MCRE)	Don Wood, INL
Nuclear Quality Assurance		
NQA Panel (Brad Tomer, Michael Fish, Sanj Malushte, Jon Facemire, Ross Hayes, Mark Richter)		
4:00 – 5:00	17. Nuclear Quality Assurance (NQA) Challenges	Brad Tomer, INL / Chandu Bolisetti, INL
Wrap Up		
5:00 – 5:45	Industry and INL Leadership Forum	Tomer, Gehin, Crone, Schmidt, Bramble, Yang
6:00 – 8:00	Reception and Poster Session	



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National Reactor
Innovation Center



April 2, 2025 (All Day) – Location EIL A102		
Time	Topic	Presenters
Industry		
8:00 – 8:05	Welcome / Prior Day Review / Preview	Brad Tomer, INL
8:05 – 8:50	1. Gap Assessment Update and Discussion	Brad Tomer, INL / Sanjay Mukhi, INL / Halim Alsaed, EnviroNuclear
8:50 – 9:10	2. TerraPower	Jocelyn Scheintaub, TerraPower/ Caysie Marshall, INL
9:10 – 9:30	3. BWXT	Abbey Donahue, BWXT/ Caysie Marshall, INL
9:30 – 10:00	BREAK AND NETWORKING	
10:00 – 10:20	4. X-Energy	James Tompkins, X-Energy / Heather Chichester, INL
10:20 – 10:40	5. Oklo	Ryan Webster, Oklo / Thomas Folk, INL
10:40 – 11:00	6. Aalo	Luke Andrew, Aalo / Jacob Rymer, INL
11:00 – 12:00	LUNCH	
11:15 – 11:45	7. Regulatory Framework Overview	Scott Ferrara, INL
Tours		
12:00 – 12:15	Badging and Load bus at EIL	
12:15 – 1:00	Travel to MFC	
1:00 – 1:20	Ingress MFC	

NOTES: Attire: Sturdy shoes with closed-toe and closed-heel that cover the whole foot are required. Must wear long slacks.

If you are participating in the tour, you will receive a separate invite for this event.

April 2, 2025

Group 1	Group 2	Group 3
MSTEC/FCF 1:10 – 2:20	SPL 1:15 – 2:15	DOME 1:20 – 2:00
DOME 2:25 – 3:05	MSTEC/FCF 2:20 – 3:30	SPL 2:05 – 3:05
SPL 3:10 – 4:10	DOME 3:35 – 4:15	MSTEC/FCF 3:10 – 4:20
4:30 – 5:30	Egress and Travel back to EIL	

MSTEC	Tour Lead: Toni Karlsson and Carson Stronks
FCF Fuel	Tour Lead: Robert Belcher and Travis Killian
SPL	Tour Lead: Eric Flyn
DOME	Tour Lead: Brady Orchard and Aaron Balsmeier NRIC Support: Chance Price and Chris Boniface



April 3, 2025 – Location EIL A102		
Time	Topic	Presenter
8:00 – 8:05	Welcome / Prior Day Review / Preview	Brad Tomer, INL
Maritime		
8:05 – 8:20	1. Maritime Program	Sanjay Mukhi, INL
8:20 – 8:35	2. DOE IFOA Award to ABS	Jorge Segovia, ABS / Mayir Mamtimin, ABS
Advanced Construction Technology Initiative (ACTI)		
8:35 – 8:50	3. ACTI Overview	Brad Tomer, INL
8:50– 9:30	4. ACTI Accomplishments and Status a. Project Status b. DPSC Testing c. ACTI Digital Twin Updates	Kyle Sena, GE Vernova Jungil Seo, Purdue Bruce Greer, EPRI
9:30 – 10:30	BREAK AND NETWORKING	
DOE Regulatory Development Program Meeting		
10:30 – 10:35	5. Welcome	Scott Ferrara, INL
10:35 – 10:45	6. Welcome and DOE-Federal Program Manager Perspective	Rian Bahran, DOE-NE
10:45 – 11:00	7. Overview of DOE Regulatory Development and RFM Program (Advance Non-Water Technologies)	Scott Ferrara, INL
11:00 – 11:45	8. Update on Non-LWR Regulatory Framework Modernization	Jason Christensen, INL
11:45 – 1:00	LUNCH	David Grabaskas, ANL
12:15 – 12:45	9. Risk-Informed Performance-Based Emergency Planning	
DOE Regulatory Development Program Meeting		
1:00 – 1:20	10.Regulatory Assessment of Internal/External Hazards	David Grabaskas, ANL
1:20 – 1:40	11.International Safety Standard Collaboration and Development	David Grabaskas, ANL
1:40 – 2:05	12. Technology Inclusive Plant and Safety Case Change Management (TIRICE and TIMaSC)	Jason Andrus, INL
2:05 – 2:30	13. Performance-Based Physical Security Framework	Robby Christian, INL
2:30 – 3:00	BREAK AND NETWORKING	



April 3, 2025 – Location EIL A102		
Time	Topic	Presenter
3:00 – 3:20	14. Support for Development of Sodium Fast Reactor Consensus Standard	Matt Bucknor, ANL
3:20 – 3:45	15. Regulatory Coordination and Integration Group	Jason Christensen, INL
3:45 – 4:00	16. Regulatory Development for AMMT Program	Jason Christensen, INL
4:00 – 4:30	Q&A, FY-26 Priorities Input, and Closing Remarks	Scott Ferrera, INL

