

Advanced Reactor Safeguards & Security Spring Program Review

Brookhaven National Laboratory
April 28-30, 2026



Tuesday, April 28th

8:00 AM	Badging	
8:30 AM	Welcome & DOE NE Remarks	Dan Warner
8:45 AM	ARSS Overview and Future Planning	Ben Cipiti
	Material Control & Accounting	
9:20 AM	Experimental Burnup Measurements of TRISO Fuel	Emily Stark
9:40 AM	Experimental Burnup Support ORNL	Don Kovacic
10:00 AM	--Break--	
10:20 AM	Machine Learning for PBR Burnup Measurements	Odera Dim
10:40 AM	Eddy Current Imaging	Claudio Gariazzo
11:00 AM	Spectroscopy, Online Monitoring for MSRs	Shirmir Branch
11:20 AM	Hybrid MC&A Tools for MSRs	Will Doniger
11:40 AM	Control Boundary Approach and Holdup for MSRs	Sunil Chirayath
12:00 PM	--Lunch--	
1:00 PM	MSR Vendor Engagement Lessons Learned	Karen Hogue
1:20 PM	SFR Vendor Engagement Lessons Learned	Claudio Gariazzo
1:40 PM	Spent Fuel Analysis and Decay Data	Arantxa Cuadra
2:00 PM	MC&A and PPS Aspects of Reactor Transit and Maritime Nuclear	Ty Otto
2:20 PM	--Break--	
2:40 PM	Microcalorimetry Modeling	Braden Goddard
3:00 PM	3D Multiplicity Counter, Boron-Coated Straw (BCS) Technology	Angela Di Fulvio
3:20 PM	MPACT Fuel Fabrication Activities	TBD
3:40 PM	Interface with NNSA ARISE	Bego Aranguren
4:00 PM	--MC&A Discussion--	
5:00 PM	Adjourn	

Wednesday, April 29th

Physical Security

8:00 AM	Microreactor Sabotage Release Study	Donny Hartanto
8:20 AM	Consequence Analysis	Chris Faucett
8:40 AM	PPS Alignment Between DOE and NRC	Alan Evans
9:00 AM	Deliberate Motion Analytics Topical Report	Steven Horowitz
9:20 AM	Interface with the Regulator	Chris Chwasz
9:40 AM	--Break--	
10:00 AM	Reinforcement Learning	Nathan Shoman
10:20 AM	PPS Analysis of Floating Nuclear Plants	Austin Orr
10:40 AM	Cyber-Physical Attach	Andrew Hahn
11:00 AM	Risk-Informed Cyber-Physical Protection	Shaheen Dewji
11:20 AM	Vendor Engagement Placeholder	
11:40 AM	--Lunch--	
12:40 PM	Interface with NNSA INSTAR	Paul Danaj
1:00 PM	Interface with LWRS Protection & Assurance Pathway	Brent Pickrell
1:20 PM	--Physical Security Discussion	
2:00 PM	--Break—	

Cybersecurity

2:20 PM	ARCADE	Andrew Hahn
2:40 PM	Defensive Cyber Security Architecture	Lee Maccarone
3:00 PM	Model Based Systems Engineering & Tie to ARCADE	Shannon Eggers
3:20 PM	Wireless Security Impact for Important to Safety Systems	Mike Rowland
3:40 PM	Diverse Redundant Communications	Titus Gray
4:00 PM	Remote Operations	Joe Oncken
4:20 PM	--Cybersecurity Discussion—	
5:00 PM	Adjourn	

Thursday, April 30th

Cybersecurity

8:00 AM	D3 and CFF for Cyber Red-Teaming	Fleur de Peralta
8:20 AM	Cyber Red Teaming	Charlie Nickerson
8:40 AM	AI Cyber Threat Hunting	Ben Blakely
9:00 AM	AI Cyber Threat Hunting	Glenn Fink
9:20 AM	Cyber R&D	Konstantinos Gkouliaras
9:40 AM	--Break--	
10:00 AM	--Breakout Sessions--	
11:00 AM	--Breakout Sessions Readout--	
12:00 PM	--Lunch--	
1:00 PM	Tours	