

PUBLIC MEETING ANNOUNCEMENT

Title: U.S. Nuclear Regulatory Commission (NRC) PRA Realism Public Workshop

Date(s) and Time(s): September 30, 2025, 09:00 AM to 05:00 PM ET
October 01, 2025, 09:00 AM to 04:30 PM ET

Location: NRC One White Flint North
11545 Rockville Pike
Rockville, MD

Category: This is an Information Meeting with a Question and Answer Session. The purpose of this meeting is for the NRC staff to meet directly with individuals to discuss regulatory and technical issues. Attendees will have an opportunity to ask questions of the NRC staff or make comments about the issues discussed throughout the meeting; however, the NRC is not actively soliciting comments towards regulatory decisions at this meeting.

Purpose: The objective of this two-day workshop is to provide a forum for the NRC and the industry to discuss ongoing efforts to improve PRA Realism. Topics will include presentations on PRA modeling applications, operating experience, external hazards, human reliability analysis, regulatory and oversight applications, realism for advanced reactors and public perspectives.

Contact: Michelle Gonzalez
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Participants:

<u>NRC</u>	<u>External</u>
Office of Nuclear Regulatory Research	NEI representatives
	Electric Power Research Institute (EPRI)
	Industry Representatives

Teleconference:

Webinar:

<u>URL</u>	<u>Meeting Number</u>	<u>Password</u>
https://teams.microsoft.com/l/meetup-join/19%3ameeting_Y2M3YTY4YzltYTY0MS00NDg2LTNmMGZjZmOWQyZmJjOWMz%40thread.v2/0?context=%7b%22Tid%22%3a%22e8d01475-c3b5-436a-a065-5def4c64f52e%22%2c%22Oid%22%3a%22a09cbb5a-8f42-44db-8db1-10035dcdf1a0%22%7d	284 809 938 704 9	xc9fZ98C

Comments: This workshop is open to the public. This meeting will be hosted as a hybrid meeting with on-site and remote participation. Effective 9/1/25, Federal employees & contractors will be able to use their Personal Identity Verification (PIV) card to access the NRC Headquarters facilities. All other visitors must be pre-registered prior to entering the NRC. Visitors who wish to participate in person must e-mail Michelle.gonzalez@nrc.gov to make arrangements to be admitted to NRC facilities. Non-U.S. citizens must present a valid passport during screening and a copy must be sent to InternationalVisitor.Resource@nrc.gov at least 12 business days before arrival. The deadline for in-person registration is September 16, 2025. Security Officers will not be able to register visitors upon arrival.

If you need a reasonable accommodation due to a disability to participate in this meeting or need meeting materials in another format (e.g. braille, large print), please email Reasonable_Accommodations.Resource@nrc.gov. Determinations on requests for reasonable accommodation will be made on a case-by-case basis and the agency may choose between which effective accommodations to provide. At least ten (10) days advance notice is recommended in order for a request to be processed and implemented if approved. However, every effort will be made to address any reasonable accommodations requests received with less notice.

If you have difficulty understanding and/or communicating in English, free language assistance or other aids and services may be available, upon request. Please email lepresources@nrc.gov. Determinations on requests will be made on a case-by-case basis. At least ten (10) days advance notice is recommended in order for a request to be processed and implemented if approved. However, every effort will be made to address any reasonable accommodations requests received with less notice.

PUBLIC MEETING AGENDA

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September 30, 2025, 09:00 AM to 05:00 PM ET

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Improving PRA Realism					
Workshop Agenda – Specific Topical Areas					
Time	Session Topic	Presentation Topic	Lead(s)	Details	
8:30 – 9:00 AM	Arrival, processing, escorting (as required)				
9:00 – 10:10 AM	Introductory Remarks	Welcome & Logistics (10 minutes)	NRC		
		Opening Remarks (10 minutes)	NRC/RES		
		Goals and Objectives of Workshop (5 minutes)	NRC/RES/DRA		
		NEI Kickoff Presentation (15 min)	NEI	NEI presentation	
		PRA Realism (30 minutes)	NRC	1. Overview of NRC/RES activities (goals/objectives) 2. Realism: <ul style="list-style-type: none">What is realismChallenges and tradeoffs	
10:10 – 12:30 PM	PRA Modeling Applications	NRC – SPAR Model Enhancements, Level 3 PRA, Digital IBC, and Fire PRA (75 minutes)	NRC	<ul style="list-style-type: none">Overview of SPAR model activities (SD, fire, FLEX, Ext Hx, updates)	
			NRC	<ul style="list-style-type: none">Level 3 modeling advancement (complex model, BLOCA, Level 2, FLEX)	
			NRC	<ul style="list-style-type: none">Modeling of Digital IBC systems	
		BREAK (15 minutes)			
		Industry – Modeling Realism Activities (45 minutes)	Industry	<ul style="list-style-type: none">Fire (HRR, Lithium-Ion Batteries, Hydrogen)Methods Consolidation <ul style="list-style-type: none">Industry activities to enhance model realismEPRI to cover collaborative work under NRC (HEAR, etc.)Experiences with Digital IBC modifications	
12:30 – 1:30 PM	LUNCH BREAK				
1:30 – 2:45PM	Operating Experience Data	NRC Data Collection and Analysis (30 minutes)	NRC	<ul style="list-style-type: none">Overview of Data Collection and Analysis (CCP (new props), Data for new and advanced reactors)Evaluation of Digital IBC failure data	
		Industry Data Activities (45 minutes)	Industry	<ul style="list-style-type: none">Industry data activities	
2:45 – 4:00 PM	External Hazards Activities	NRC External Hazard Activities (30 minutes)	NRC	<ul style="list-style-type: none">Flooding hazard and mitigationFOANR	
			NRC	<ul style="list-style-type: none">External Hazards (citing, etc.)	
		BREAK (15 minutes)			
4:00 – 4:45 PM	Human Reliability Analysis	NRC HRA Activities (20 minutes)	NRC	<ul style="list-style-type: none">DIHEAS – status and current activitiesHRA data collection and analysis (SMCADA)	
		Industry HRA Activities (25 minutes)	EPRI	<ul style="list-style-type: none">EPRI Activities	
4:45 – 5:00 PM	Wrap Up for Day 1		NRC	<ul style="list-style-type: none">Summary of DiscussionsAgenda for Day 2	
END OF DAY 1					

DAY 2				
Time	Session Topic	Presentation Topic	Lead(s)	Details
8:30 – 9:00 AM	Arrival, processing, escorting (as required)			
9:00 – 9:30 AM	Introductory Remarks	Welcome & Logistics (10 minutes)	NRC Facilitator	
		Opening Remarks (20 minutes)	NRC	<ul style="list-style-type: none">Summary from Day 1, Agenda for Day 2
		NRC PRA Standards Activities (18 minutes)	NRC	<ul style="list-style-type: none">Overview of PRA Standards Engagement, Current focus areas, Guidance
		NRC Reactor Oversight (20 minutes)	NRC	<ul style="list-style-type: none">Realism in the SDP
		Accident Sequence Posture Program (15 minutes)	NRC	<ul style="list-style-type: none">Realism in ASD event analysis
9:30 – 12:00 PM	Regulatory and Oversight Applications	BREAK (15 minutes)		
		NRC Risk Informed Licensing (20 minutes)	NRC	<ul style="list-style-type: none">PRA Realism expectations for licensingPRA configuration control, policies, and upgrades
		Industry – Regulatory Applications (40 minutes)	NEI	<ul style="list-style-type: none">Industry activities
		Defense in Depth (20 minutes)	EPRI	<ul style="list-style-type: none">DIID in the context of PRA realism
12:00 – 1:00 PM	LUNCH BREAK			
1:00 – 2:00 PM	Realism for Advanced Reactors	NRC Perspectives (20 minutes)	NRC	<ul style="list-style-type: none">PRA realism in advanced reactor applications
		Industry Perspectives (40 minutes)	NEI EPRI	<ul style="list-style-type: none">Industry perspectives for advanced reactors
2:00 – 2:30PM	Public Perspectives	Public Perspectives on PRA Realism	Members of the public	
2:30 – 2:45 PM	BREAK (15 minutes)			
2:45–3:30 PM	Open Discussion: General Feedback and Discussion on PRA Realism Activities (open, schedule, etc.) (45 minutes)		NRC Facilitator Led	
3:30 – 4:15 PM	Open Discussion: Priorities for Future Activities (resource limitations, focus areas) (45 minutes)		NRC Facilitator Led	
4:15 – 4:25 PM	Wrap-Up and General Q&A (10 minutes)		All	
4:25 PM – 4:30 PM	Closing Remarks		NRC	
END OF DAY 2				

ADAMS Accession Number: ML25234A053

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Link to meeting details: <https://www.nrc.gov/pmns/mtg?do=details&Code=20251051>

Commission's Policy Statement on "Enhancing Public Participation in NRC Meetings"
86 FR 14964, March 19, 2021
ADAMS No. ML21050A046
<https://www.nrc.gov/reading-rm/doc-collections/commission/policy/index.html>