

Advisory Committee on Reactor Safeguards
Joint Human Factors Reliability & PRA, and Digital I&C Subcommittee Meeting
Information Briefing:

Implementing the NRC’s Artificial Intelligence (AI) Strategic Plan Fiscal Years 2023-2027

Agenda

Open to the Public

November 20, 2024, 8:30 am – 5:30 pm

11555 Rockville Pike, Rockville, MD 2085

TWF 2D10

This will be a hybrid meeting with both in-person and remote capability. Members of the public may observe open portions of the meeting by using the MTeams link below or using the bridgeline number+1 301-576-2978, passcode 369 232 860#. All times are Eastern.

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Meeting ID: 229 664 485 204

Passcode: ToHTy6

Human Factors Reliability & PRA Subcommittee Chair: Vicki Bier
Cognizant Senior Staff Engineer: Christina Antonescu (301) 415-6792,
Christina.Antonescu@nrc.gov

Topic		Presenter	Time (EST)
Wednesday, Nov. 20			
I	Opening Remarks by Chairman	Vicki Bier, ACRS	8:30 am – 8:35 am
II	Introductory Remarks	Vic Hall, RES	8:35 am – 8:40 am
III	AI Project Plan	Taylor Lamb, RES	8:40 am – 9:20 am
IV	Data Science and AI Regulatory Applications Public Workshop AI Regulatory Framework Applicability Workshop Findings	Matthew Homiack, RES	9:10 am – 10:00 am
V	CAN-UK-US Trilateral Collaboration: Considerations for Developing AI Systems in Nuclear Applications	Matt Dennis, RES	10:00 am – 10:30 am
	Break	At Chairman’s discretion	10:30 am – 10:45 am

VI	AI Regulatory Gap Analysis	Osvaldo Pensado, SwRI (VIRTUAL) Matt Dennis, RES	10:45 am – 12:00 pm
	Lunch Break		12:00 pm – 1:00 pm
VII	Overview of NEI’s White Paper on AI	James Slider, NEI	1:00 pm – 1:30 pm
VIII	Model-Agnostic Explainability Methods for Trustworthy AI in Nuclear Reactor Applications	Dr. Majdi I. Radaideh, University of Michigan – Ann Arbor (VIRTUAL)	1:30 pm – 3:15 pm
	Break	At Chairman’s discretion	3:15 pm – 3:30 pm
IX	Nuclear Industry Use of AI	Jonathan Nistor, Blue Wave AI Labs	3:30 pm – 5:00pm
X	Public Comments	Members of the Public	5:00 pm – 5:10 pm
XI	Committee Discussion and Closing Remarks by Chairman	Vicki Bier, ACRS	5:10 pm – 5:30 pm

Notes:

- **“Federal Register Notice 84 FR 27662 (<https://www.govinfo.gov/content/pkg/FR-2019-06-13/pdf/2019-12425.pdf>) dated June 13, 2019, describes procedures to be followed with respect to meetings conducted by the U.S. Nuclear Regulatory Commission’s (NRC’s) Advisory Committee on Reactor Safeguards (ACRS) pursuant to the Federal Advisory Committee Act (FACA) and NRC implementing regulations found at Title 10 of the *Code of Federal Regulations* Part 7, “Advisory Committees.” Members of the public who desire to provide written or oral input for ACRS Full Committee and Subcommittee meetings may do so and should contact the designated federal official (DFO) five days prior to the meeting, as practicable. In addition, there will be time allotted at each meeting for the public provide oral comment. The DFO will be listed in the FRN for Full Committee meetings and the agendas for Subcommittee meetings.**
- **Participants on the public line will be muted except when the subcommittee Chairman opens the meeting to public comment.**
- **When appropriate, members of the public and representatives of the nuclear industry may provide their views during the briefings at the designated or announced times, depending on the progress of the meeting.**
- **Presentation time should not exceed 50 percent of the total time allocated for a given item. The remaining 50 percent of the time is reserved for discussion.**
- **One (1) electronic copy of the presentation materials should be provided to the ACRS staff 24-48 hrs in advance of the meeting.**