

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

November 15, 2023, 8:30 am – 5:30 pm

Open to the Public

Agenda

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

*This meeting will be Hybrid

Members of the public may join open portions of the meeting by using the MSTeams link below or using the brideline number. All times are Eastern.

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Phone Conference ID: 931 237 641#

If you would like the MSTeams link for the open session forwarded to you, please contact the Designated Federal Officer: Christina.Antonescu@nrc.gov

Topic		Presenter	Time (EST)
Wednesday, Nov. 15			
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	Data Science and AI Regulatory Applications Public Workshop - AI Characteristics for Regulatory Consideration Workshop Findings	Matt Dennis, RES Trey Hathaway, RES	8:40 am - 9:30 am
IV	AI Project Plan	Anthony Valiaveedu, RES Matt Dennis, RES Trey Hathaway, RES	9:30 am – 11:00am
	Break	At Chairman’s discretion	11:00 am - 11:15 am

V	Future Focused Research (FFR) Project: Using Machine Learning to Inform Inspection Planning	James Chang, RES	11:15 am - 12:00 Noon
	Lunch Break		12:00 Noon - 1:00 pm
VI	Overview of DOE's Light Water Reactor Sustainability Program	Bruce Hallbert, INL	1:00 pm- 1:30 pm
VII	Plant Modernization Activities - LWRS AI Industry Research & Accomplishments Overview - Fire Watch Report	Craig Primer, INL Ahmad Rashdan, INL	1:30 pm – 3:15 pm
	Break	At Chairman's discretion	3:15 pm – 3:30 pm
VIII	The Good, the Bad and the Ugly of AI in Process Control	Dr. Missy Cummings, George Mason University	3:30 pm- 5:00pm
IX	Public Comments	Members of the Public	5:00 pm - 5:10 pm
X	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 in advance of the meeting.**