PUBLIC MEETING ANNOUNCEMENT

Title: NRC/Industry Advanced Reactor Materials Technical Exchange Public Meeting

Date(s) and Time(s): October 29, 2025, 09:00 AM to 05:00 PM ET

Location: NRC Headquarters

11555 Rockville Pike

Rockville, MD

Category: This is an Observation Meeting. This is a meeting in which attendees will have an

opportunity to observe the NRC performing its regulatory function or discussing regulatory issues. Attendees will have an opportunity to ask questions of the NRC staff or make comments about the issues discussed following the business portion of the meeting; however, the NRC is not actively soliciting comments towards regulatory decisions at this

meeting.

Purpose: The purpose of this technical exchange is to share information and discuss structural

materials in advanced reactors topics such as material qualification, through-life design parameters, construction rules, materials management programs and the licensing process with the nuclear industry. This meeting will be a hybrid meeting and use Microsoft

Teams

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Participants: NRC

Office of Nuclear Reactor Regulation
Office of Nuclear Regulatory Research

Comments: Registration for this technical exchange (in-person or virtual attendance) is available at

https://forms.office.com/g/5kJe60gHGT. Please register if you plan to attend in person by

September 15.

Please note the following changes to visitor access to the NRC:

Mandatory Pre-registration for non-federal employee visitors: Effective September 1, 2025, NRC sponsors must pre-register all visitors who do not have PIV cards (and/or who need parking). 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.

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_ Time	TENTATIVE AGENDA Tapis
Wednesday, Oct 29 9:00	Introductions/Opening Remarks
9:00	Presentation (NRC)
	 Define the objective of this effort: to identify technical issues and explore potential solutions for resolving them.
	 Establish the format of this effort: perspectives will be presented by the NRC and industry through presentations, followed by open technical discussions for all attendees to participate in.
9:05	Deployment Overview Session objective: Open discussion on the stages of deployment.
	Presentation (NRC) • NRC perspective on the stages of deployment:
	 Data package requirements to qualify a now material into the Code End-of-tile properties and environmental supplemental suring to support design and
	 Construction rules (nuclear codes, non-nuclear codes and non-codified materials) Reliability and Integrity Management (RIM) Meditoring and nondermative estamination (MANDE)
10:35	Open discussion Break
10:50	Data Package for Material Qualification Session objective: Discussion on purposes of developing data packages and Code
	qualification. Metallics: American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code (BPVC) Section III, Division 5 (III.5), Nonmandatory
	Appendix HBB-Y for Class A components and ASME BPVC Section II, Part D Mandatory Appendix 5 Open discussion via survey
	Industry use of Nonmandatory Appendix HBB-Y. Industry challenges with these appendices in the Code as written and solutions
	for improvement. Graphite
	Open discussion via survey • Industry's implementation of the Code requirements for the material data
	short.
12:30	Industry challenges with the Code as written and solutions for improvement. Lunch
1:30	Through-Life Design Parameters Session objective: Discussion on how end-of-life properties are determined and can
	be incorporated into III.5 design and design check. Open discussion via survey
	 Industry perspective on the determination of end-of-life properties and their incorporation into III.5 design and design check.
3:00 3:15	Break Construction Rules (Including design parameters and allowables)
3:13	Construction Rules (including design parameters and allowables) Session objective: Over-riew of ongoing nuclear codes and standards work, including utilization of Class B rules. Discussion on the content of non-nuclear codes and
	unitization of Class B rules. Discussion on the coment of non-increar codes and standards and leveraging them for reactor deployment. Commercial mon-nuclear codes
	Presentation (NRC)
	 NRC perspective on non-nuclear construction rules and non-codified materials (e.g., Section VIII).
	Presentation (Mark Messner) • NRC Office of Nuclear Regulatory Research issued reports on the use of
	ASME Section VIII design rules
	Open discussion via survey • Industry perspective on using commercial/ non-nuclear codes for safety-
	related and non-safety related with special treatment components.
	Open discussion via survey
	 Industry perspective on Class B? Does industry plan to implement these rules? Why or why not? Is Class B needed?
	Status of the ASME BPVC Section III Task Group to Investigate Creation of Division 6.
4:30	Accelerating the Code process Session objective: Discussion on strategies to enable faster Code processes and NRC
	approval Presentation (NRC)
	Accelerating NRC processes to accept approved Code actions.
	Open discussion via survey • Methods for accelerating material qualification such as staged qualification.
	Methods for accelerating material qualification such as staged qualification. Methods for accelerating Code development such as the use of Code Cases. Optimizing safety classification and the use of Class B.
Thursday, Oct 30 9:00	Materials Management Programs
9500	Session objective: Discussion on materials management and operational programs throughout the life of the facility.
	Presentation (NRC)
	NRC perspective on what needs to be surveilled and associated challenges. Presentation (Mark Messner)
	Development of surveillance test articles for materials degradation manageme
	Open discussion via survey • Industry perspectives on the development, implementation, and challenges of
	materials surveillance programs. Presentation (Tom Roberts)
	ASME Section XI, Division 2: Requirements for RIM Programs for Nuclear
	Reactor Facilities Presentation (Abilene Christian University)
	◆ To be determined
	Presentation (Robert (Bob) Youngblood) • Reliability Target Allocation
	Open discussion via survey
	 RIM/MANDEMANDE technology development Opportunities/shallenges with:
	□ Degradation mechanism assessment □ Expert panel □ Procussor on reliability targets
	Precursor on reliability targets
	 Safety related/non-safety related with special treatment vorses asset management in RIM program scope
	Allocation of reliability targets Approaches other than RIM.
	Lunch
12:00 1:00	Licensing Process Session objective: Discussion on licensing lessons learned, content of ambigations an
12:00	Licensing Process Session objective: Discussion on licensing lessons learned, content of applications an treatment of structures, systems, and components (SSCs) using the Licensing Modernization Project (LMP) methodology.
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