

# **Industry / NRC Materials Programs Technical Information Exchange**

## **INDUSTRY/NRC MATERIALS TECHNICAL EXCHANGE MEETING**

NRC Headquarters  
June 25-27, 2024

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# Welcome

- Public Meeting – Observation Meeting
- Hybrid Meeting – Logistics
- Introductions
- Meeting Objective –
  - To discuss passive component materials related program updates, issues, operational experience and ongoing research
  - To conduct a workshop on risk-informing materials issues
- All presentation slides are available for download in NRC Public ADAMS site, see next slide

# Welcome

• 01 – NRC – Welcome	ML24177A025	• 18 - Performance Monitoring for Select Components	ML24172A264
• 02 - MRP Program Update	ML24173A120	• 19 - Irradiated Stainless Steel Fracture Toughness Industry update and plans	ML24172A265
• 03 - PWROG Update	ML24173A122	• 20 - PWSCC Initiation and FAVPRO	ML24173A153
• 04 - BWRVIP Report	ML24172A290	• 21 - CASS Flaw Tolerance	ML24173A154
• 05 - IMR Program Update	ML24172A291	• 22 - EPRI EPFM Handbook	ML24172A299
• 06 - WRTC Program Review	ML24172A256	• 23 - BWR Chemistry AMP Topic	ML24172A300
• 07 - EPRIs Advanced Reactor Plans	ML24172A257	• 24 - ASME Code Updates	ML24172A266
• 08 - NRC - xLPR Update	ML24172A302	• 25 - NRC- ASME Code Efforts	ML24172A305
• 09 - NRC - 50.55a Rulemaking Update	ML24172A303	• 26 - RIDM-RIMA Perspectives from DRA	ML24173A193
• 10 - NRC - Overview of NRC Materials Research Supporting LTO for TIE Meeting	ML24172A295	• 27 - Risk-Informed Decision Making to materials	ML24172A267
• 11 - Advanced Reactor Codes & Standards	ML24172A296	• 28 - NRC - Risk-Informing Materials Issues	ML24172A297
• 12 - NRC - SLR	ML24173A183	• 29 - NRC - RIMA	ML24172A306
• 13 - NRC - AMTs	ML24173A185	• 30 - Historical PFM Applications	ML24173A168
• 14 - Aux Piping FC Update	ML24173A139	• 31 - Code Development Using Risk Insights	ML24173A194
• 15 - CB Focus Group Update	ML24173A140	• 32 - WGRIA Action Items, Executive Briefing Highlights and Related Content	ML24173A169
• 16 - BWRVIP CGR Revision Plans	ML24172A293		
• 17 - NEI 03-08 Doc Screen	ML24172A294		

# Agenda

June 25, 2024

TIME	TOPIC	PRESENTER	PRESENTATION ID
8:30am	Introductions, Agenda Review, Attendance and Meeting Objectives	NRC/Industry	1
8:45am	Industry Program Report (30 mins / Program) <ul style="list-style-type: none"> <li>Overview and significant Program updates since the last meeting</li> <li>Status of reports submitted to NRC</li> <li>Expected Report submittals</li> <li>OE of interest since last meeting</li> </ul>	MRP	2
		PWROG	3
		BWRVIP	4
		IMR	5
		WRTC	6
10:50am	<b>Break</b>		
11:00am	EPRI's Advanced Reactor Plans, incl. MDM/IMT	Industry	7
11:45am	<b>Lunch</b>		
1:00pm	NRC Updates	NRC	8
	• xLPR update and recent applications – 10min	NRC	9
	• ASME Rulemaking Update – 5 min	NRC	10
	• LTO Research Efforts-15min	NRC	11
	• Advanced Reactor Codes & Standards – 10min	NRC	12
	• SLR Licensing – 15min	NRC	13
2:15pm	French SCC discussion - Industry update	Industry	14
2:45pm	Industry Core Barrel Focus Group update	Industry	15
3:15pm	<b>Break</b>		
3:30pm	BWRVIP Plans for CGR Revision	Industry	16
4:00pm	Review of Action Items	NRC	
4:15pm	Public comments	NRC	
4:30pm	<b>Adjourn</b>		

# Agenda

June 26, 2024

TIME	TOPIC	PRESENTER	PRESENTATION ID
9:00am	Introduction and Review of Day 2	Industry/NRC	
9:15am	NEI 03-08 App C Screening Process	Industry	17
10:15am	Industry-Wide Approach to Performance Monitoring	Industry	18
10:45am	<b>Break</b>		
11:00am	Irradiated Stainless Steel Fracture Toughness Industry update and plans (BWRVIP-100)	Industry	19
11:30am	<b>Lunch</b>		
1:00pm	A690 and FAVPRO update	NRC	20
1:30pm	CASS Flaw Tolerance Work	Industry	21
2:00pm	Overview of EPRI's EPFM handbook revision	Industry	22
2:30pm	BWR Water Chemistry AMP Topic	Industry	23
3:00pm	<b>Break</b>		
3:15pm	ASME Code updates – 30 min • Industry's priorities now and going forward	Industry	24
	NRC perspective on ASME Code Efforts – 30 min	NRC	25
4:15pm	Review of Action Items	NRC	
4:25pm	Public comments	NRC	
4:40pm	<b>Adjourn</b>		

# Agenda

June 27, 2024

TIME	TOPIC	PRESENTER	PRESENTATION ID
8:30am	Introduction and Review of Day 2	Industry/NRC	
8:45am	<b>SESSION 1: RISK-INFORMING MATERIALS ISSUES – DEFINITIONS, LICENSING AND GUIDANCE</b>		
8:45am-9:15am	Risk-Informed Decision Making relating to material related issues: NRC perspectives	NRC	26
9:15am-9:45am	Risk-Informed Decision Making (RIDM) as it can apply to materials	Industry	27
9:45am	<b>Break</b>		
10:00am-10:45am	Risk Insights for Materials Issues - NRC Perspective	NRC	28
10:45am-11:45am	Risk-informed Materials Assessment (RIMA)	NRC	29
11:45am	<b>Lunch</b>		
1:00pm-1:30pm	Historical applications of PFM for materials applications	Industry	30
1:30-2:00pm	Open Discussion on Session 1	NRC/Industry	
2:00pm	<b>SESSION 2: RISK-INFORMING ASME CODE REQUIREMENTS</b>		
2:00pm -3:00pm	Code development using risk insights	NRC	31
3:00pm-3:30pm	Working Group on Risk Informed activities	Industry	32
3:30pm	Break		
3:45pm-4:45pm	OPEN DISCUSSION	NRC/Industry	
4:45pm-5:00pm	Review of Action Items		
5:00pm-5:15pm	Public comments		
5:15pm	<b>Adjourn</b>		

# Ongoing Action Items

- **Routine updates on its use of the document screening tool** - See [BWRVIP update](#)
- **RPV Embrittlement-** NRC wrote SECY-22-0019 recommended a rule change waiting on Commission
- **Streamlining 50.55a** – Should be incorporated at next cycle of Rule Making.
- **Nickel-base Alloy NUREG on CGR/FOIs updates** - Expert panel data scoring meeting was held 12/12/23. One to two additional data scoring rounds will be needed based upon the data obtained to date and additional data available.
- **EDF stress corrosion cracking** - Public meeting held on Feb 21 to discuss LIC-504 and PWROG applicability assessment. – [See Presentation](#)
- **PWROG and NRC to hold a meeting to discuss the next revision of WCAP-17096 and incorporation of fracture toughness updates** - Working with EPRI on FT item.
- **RFA-6 CODES AND STANDARDS ANNUAL REPORT: EPRI WRTC will look into making the report free release so NRC can have a copy.** - WRTC is looking into this. The annual report is more than a simple summary and is published as an EPRI report. More to come.
- **EPRI will provide more information/detail in the annual NEI 03-08 screening summary letter to NRC. Can industry make the screenings and associated changes made to the document available to NRC (e.g., NRC reading room)?** - EPRI believes that the screenings can be included with the annual summary letter; however, would like to find a way to make that docketable so licensees can reference it in submittals - [See Presentation](#)