**AGENDA**

**Risk-Informed, Performance-Based Principles and Policy Committee (RP3C) Hybrid Meeting**

**June 16, 2025**

**2:00-5:00 pm CENTRAL (Local time in Chicago)**

**Chicago Marriott Downtown, Chicago, IL**

**ROOM: Kane (3rd Floor)**

[Meeting Room Floor Plan](https://www.marriott.com/en-us/hotels/chidt-chicago-marriott-downtown-magnificent-mile/events/?msockid=37574c71dbe16f9710c15f95da9a6ea9)

**Remote Option to Physical Meeting via ZOOM:**

[**https://us02web.zoom.us/j/88386329618?pwd=dq8nZmuoTdPpGnhWrNbHIbCadprKGR.1**](https://us02web.zoom.us/j/88386329618?pwd=dq8nZmuoTdPpGnhWrNbHIbCadprKGR.1)

Meeting ID: 883 8632 9618 / Passcode: 385681 / Call in #: +1 309 205 3325

1. **Welcome, Roll Call & Introductions—Krahn (10 min)**

**THEME: ESTABLISHING CONTEXT TO PROVIDE CLARITY**

**2. Approval of Meeting Agenda—Krahn (5 min)**

NOTE: The meeting presentation will be provided before the meeting.

**CATEGORY I:** RP3C PRIORITIES – RECENT, ONGOING, AND UPCOMING

**3. Review of RP3C Activities Under SMART Matrix – Chisholm (10 min)**

1. RP3C actions under new SMART Matrix:



* 1. Item 1Cb: Develop interface matrix outlining the scope, responsibilities, and interface management between the ANS/ASME Joint Committee on Nuclear Risk Management (JCNRM) and the Risk-informed, Performance-based Principles and Policy Committee (RP3C).

STATUS: Need being evaluated by RP3C leadership.

* 1. Item 2Cb: Develop a RIPB Guidance Document and training package to train current WG members on its application to standards.

STATUS: Need being evaluated by RP3C leadership.

* 1. Item 3Ca: New action needed.

STATUS: RP3C leadership to consider.

* 1. Item 3Cb: Advertise the success of RP3C internal to ANS and the positive impact it can have on external organizations.

STATUS: Article on RP3C’s 5th anniversary published February 2025.

* 1. Item 3Cc: Develop a PowerPoint presentation to present accomplishments to other industry organizations, including industry forums, to publicize the progress that ANS has made.

STATUS: A slide has been created for use by RP3C and RARCC members to include in presentations to spread the word about RP3C.



1. **Discuss Status of and Path Forward for RP3C Priorities – Krahn (15 min)**

**CATEGORY II:** KEY INTERFACES AND INTERACTIONS OUTSIDE OF ANS

**5. Report from SCoRA – Hudson (10 min)**



**6. RIPB Expert Representation and Participation on ANS Standards WGs, including RP3C and JCNRM/SCoRA – Chisholm (15 min)**

**7. Evaluating the Need for Additional Expertise on the RP3C – Schroeder/Krahn (15 min)**

ACTION ITEM 11/2024-04: Pat Schroeder to 1) provide a list of ANS committees of RP3C members and 2) add a discussion on whether additional expertise is needed on the RP3C at the RP3C June 2025 meeting agenda.)



**8. Invite Additional Input on High Value Opportunities for Interactions with Other Organizations and/or Individuals – Krahn (5 min)**

**CATEGORY III:** INCREASING ALIGNMENT ON RIPB CONCEPTS AND TERMINOLOGY

**9. Introducing the Concept of a Concordance to Support Improvements to RP3C Guidance Document and Other Related Initiatives – Krahn (30 min)**

**CATEGORY III** INTERACTIONS WITH ANS STANDARDS WORKING GROUPS

**10. Recent and Ongoing Involvement with ANS Standards Working Groups – Krahn/Chisholm (10 min)**

* Recently held discussions with NCSCC Chair and leadership of ANS-2.35 Working Group
* Potential involvement in revision to ANS-54.8, Liquid Metal Fire Protection in LMR Plants?

The Schedule of RIPB Standards in Development is embedded here for reference.



* RP3C interaction/input on the following PINS or standards on the RIPB Schedule (not discussed elsewhere):
* ANS-2.3, Estimating Tornado, Hurricane, and Extreme Straight-Line Wind Characteristics at Nuclear Facility Sites
* ANS-2.15, Criteria for Modeling Atmospheric Dispersion of Radiological Releases from Nuclear Facilities
* ANS-2.18, Evaluating Radionuclide Transport in Surface Water for Nuclear Reactor and Nuclear Facility Sites
* ANS-2.22, Environmental Radiological Monitoring at Operating Nuclear Facilities
* ANS-2.26, Categorization of Nuclear Facility SSCs for Seismic Design
* ANS-2.32, Remediation of Radioactive Contamination in the Subsurface at Nuclear Power Plants
* ANS-2.34, Characterization and Probabilistic Analysis of Volcanic Hazards
* ANS-2.35, Guidelines for Estimating Present & Projecting Future Socioeconomic Impacts from Construction, Operations, and Decommissioning of Nuclear Facilities
* ANS-2.36, Accident Analysis for Aircraft Crash into Reactor and Nonreactor Nuclear Facilities
* ANS-3.5.1, Nuclear Power Plant Simulators for Use in Simulation-Assisted Engineering and Non-Operator Training
* ANS-GD-3.8, Guidance for Risk-Informing Emergency Preparedness Programs for Nuclear Facilities
* ANS-3.15, Risk-Informing Critical Digital Assets (CDAs) for Nuclear Power Plant Systems
* ANS-6.4, Nuclear Analysis and Design of Concrete Radiation Shielding for Nuclear Power Plants
* ANS-15.11, Radiation Protection & Research Reactors
* ANS-15.22, Classification of Structures, Systems and Components for Research Reactors
* ANS-56.2, Containment Isolation Provisions for Fluid Systems After a LOCA
* ANS-57.2, Design Requirements for LWR Spent Fuel Storage Facilities at NPPs
* ANS-57.9, Design Criteria for an Independent Spent Fuel Storage Installation (Dry Storage Type)

**CATEGORY IV:** ADDRESS STANDARDS BOARD’S OBJECTIVES

1. **Community of Practice Sessions – Chisholm (10 min)**
2. Need for Presenters
3. Recap of Recent CoP Sessions

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| --- | --- | --- | --- |
| **CoP Presentation Title** | **Presenter Name/ Affiliation** | **# of Attendees** | **# of YouTube Viewings** |
| A Risk Informed Environmental Process for Microreactors (6/28/24) | Chanson Yang with Radiant Nuclear | 32 | 720 |
| Risk Informing Codes and Standards (8/30/24) | Jon Facemire with Nuclear Energy Institute | 56 | 154 |
| RI-PB Design with ASME PSD-1 (9/27/24) | Ralph Hill with Hill Eng Solutions Chair, ASME PSD-1 Chair | 47 | 133 |
| The Safety-in-Design (SiD) Methodology-As Applied to Advanced Fission Projects & Beyond (10/25/24) | Steve Krahn and Megan Harkema from Vanderbilt University | 44 | 191 |
| We Want Your (Input): Setting the stage for improving RIPB guidance in the RP3C Guidance Document (1/31/25) | Steve Krahn/RP3C Chair (Vanderbilt) & Brandon Chisholm/RP3C VC (Southern Co.) | 31 | 57 |
| EPRI Research on Risk Metrics for Advanced Reactors (2/28/25) | Eric Thornsburg with EPRI | 83 | 144 |
| Risk-Informed Performance-Based Structural Design for External Hazards (4/4/25) | Fred Grant with SIMPSON GUMPERTZ & HEGER | 52 | 213 |
| RIPB Design Approaches for Enhanced Safety and Reliability in New Nuclear (5/2/25) | Paul Amico with Jensen Hughes | 64 | 219 |
| Risk-Informing: When, Where, and How to Start (5/30/25) | Megan Harkema with Vanderbilt Univ | 38 | 101 |

B. Solicit Input on Path Forward & Plans for Next Year

**12. Review of Open Action Items—Krahn/Schroeder (5 min)**

The following action items have been completed:

ACTION ITEM 11/2024-01: Brandon Chisholm and Daniel Moneghan to prepare a curated list of the CoP presentations and prepare a Nuclear Newswire article to coincide with the 5th anniversary of the CoP in February 2025.

DUE DATE: February 1, 2025

STATUS: Completed (find at <https://www.ans.org/news/2025-02-24/article-6782/rp3c-community-of-practices-fifth-anniversary/>)

ACTION ITEM 11/2024-02: Prasad Kadambi to add a slide on the CoP in his presentation for the ARCSC Workshop.

DUE DATE: December 4, 2024

STATUS: Completed

ACTION ITEM 11/2024-03: Pat Schroeder to include a 10-minute report from SCoRA on the RP3C agenda for the June 2025 meeting.

DUE DATE: June 1, 2025

STATUS: Completed

ACTION ITEM 11/2024-04: Pat Schroeder to 1) provide a list of ANS committees of RP3C members and 2) add a discussion on whether additional expertise is needed on the RP3C at the RP3C June 2025 meeting agenda.

DUE DATE: June 1, 2025

STATUS: Completed

ACTION ITEM 11/2024-05: Andrew Sower to ask NRC to appoint an NRC rep to the RP3C and to ask for the name of their RIPB expert.

DUE DATE: December 15, 2024

STATUS: NA. Norbert Carte is the NRC representative on RP3C.

**13. Other Business—All (5 min)**

**14. Next Meeting—Krahn**

Upcoming ANS meetings:

* 2025 ANS Winter Conference and Expo in Washington, D.C., at the Washington Hilton, November 9–12, 2025
* 2026 ANS Annual Conference in Denver, Colorado, at the Sheraton Denver, May 31-June 3, 2026

**15. Adjournment**