

## Standards Board (SB) Meeting

June 17, 2025

Chicago Marriott Downtown

Attended	Voting Member Name	Role	Company
x	Todd Anselmi	Vice Chair (2026) At-Large (2026)	Idaho National Laboratory
x*	Robert Becse	At-Large (2028)	Westinghouse Electric Company LLC
	Robert Budnitz	At-Large (2026)	Consultant
x*	Jennifer Call	At-Large (2027)	Tennessee Valley Authority
x	Brandon Chisholm	At-Large (2026)	Southern Company
x*	Michelle French	Ex-Officio	Westinghouse Government Services
x	Gale Hauck	Ex-Officio	Oak Ridge National Laboratory
x*	Dennis Henneke	Ex-Officio	Consultant
x	Mark Joseph	Ex-Officio	Navarro Research & Engineering
x	Robert Kalantari	At-Large (2028)	Engineering Planning & Management, Inc.
x	Jean-Francois "Jef" Lucchini	Ex-Officio	Los Alamos National Laboratory
x*	Carl Mazzola	Ex-Officio	Los Alamos National Laboratory
x*	Frances "Frankie" Pimentel	At-Large (2026)	Nuclear Energy Institute
x*	Andrew Smetana	Ex-Officio	Individual
x	Andrew Sowder	Chair (2026) At-Large (2026)	Electric Power Research Institute
x	Kent Welter	At-Large (2026)	NuScale Power
X*	Larry Wetzol	Ex-Officio	Individual
16	16/17 Votes = 94.12% Participation		

Attended	Nonvoting Observers, Liaisons, and Guests Name	Role	Company
x*	Amir Afzali	Observer	Individual
x*	Ahmad Al Rashdan	Guest	Idaho National Laboratory
x*	Christian Araguas	Guest	U.S. Nuclear Regulatory Commission
x*	Douglas Bowen	Observer	Oak Ridge National Laboratory
x*	Jarvis Caffrey	HPS Liaison	National Aeronautics and Space Administration - MSFC
x	Donald Eggett	Observer	Individual
x*	George Flanagan	Observer	Individual
x*	Calvin Hopper	Observer	Oak Ridge National Laboratory
x*	Raj Iyengar	Guest	U.S. Nuclear Regulatory Commission
x*	N. Prasad Kadambi	ANSI Liaison	Individual

x	Steven Krahn	Observer	Vanderbilt University
X*	Brian McDonald	ASCE Liaison	Exponent, Inc.
x	James O'Brien	Guest	Individual
x*	Madhumita "Mita" Sicar	ACI Liaison	U.S. Nuclear Regulatory Commission

*\*participated remotely*

### 1. Welcome and Roll Call

Standards Board Chair Andrew Sowder welcomed members and guests participating both in-person and virtually. Roll call was taken, and a quorum was established.

### 2. Approval of Agenda

The agenda was approved with the flexibility to move discussion items as needed to accommodate schedules.

### 3. SB Chair Report

#### A. Highlights of Report to the Board of Directors



SB

Chair\_2025\_ANNUAL

Andrew Sowder provided highlights of his [embedded](#) chair report to the ANS Board of Directors.

#### B. Standards Breakfast Roundtable at 2025 ANS Winter Conference (D.C.)

A Standards Breakfast Roundtable is being planned for the 2025 ANS Winter Conference in Washington D.C. The roundtable will be held on Tuesday, November 11, before the Standards Board meeting during the attendee breakfast from 7:00am – 8:00am eastern in a room near where breakfast is served. The purpose of the roundtable is to increase awareness of the ANS standards program and encourage attendees to join. The following action items were assigned during the discussion.

ACTION ITEM 6/2025-01: Andrew Sowder, Amir Afzali, Doug Bowen, Don Eggett, Steve Krahn, and Pat Schroeder to work on planning the Standards Breakfast Roundtable at the 2025 ANS Winter Conference. (Schroeder to facilitate a meeting to start the planning.)  
DUE DATE: August 1, 2025

ACTION ITEM 6/2025-02: Pat Schroeder to invite promoted associate members to the Standards Breakfast Roundtable to share their experiences.  
DUE DATE: September 1, 2025 (or after the planning meeting)

#### C. Change to ANS Annual Conference in June

In 2028, the June annual conference will likely cease to exist as it is currently scheduled. It is expected that the ANS Board of Directors (BOD) will designate the annual meeting for November starting in 2028. That means appointed members actively in service in 2028 will have a term that is 5 months longer. The BOD is working on what will replace the June annual conference. It is expected to focus on training and professional development. There will likely be room for some embedded topicals but not committee meetings. The BOD will continue the discussion on the change to the June annual conference at their meeting this Thursday.

- D. Potential ANS Virtual Standards Week  
See [embedded](#) survey results



VirtualStandardsWeekSurveySummary.docx

Sowder stated that Sven Bader, a Standards Committee member, suggested that ANS hold a virtual standards week similar to what the American Society of Mechanical Engineers (ASME) does. In response, a survey was issued to Standards Committee members earlier this year to gather feedback on the possibility of holding a virtual standards week (or two). The virtual standards week could take the place of the ANS June annual conference. Todd Anselmi provided insight into ASME's Boiler and Pressure Vessel Code Week as an ASME member. Standards Board members questioned the benefit of a virtual standards week. Differences between ASME and ANS activities were recognized. Dennis Henneke would be in favor of coordinating with other working groups if other groups are interested. Sowder sees there being a need for a virtual meeting from the Standards Board in June if/when the June annual conference is dissolved but agrees that a virtual meeting would not be solving a problem. Amir Afzali sees a virtual meeting as more productive because some people do not have funding to support their travel but recognized the loss of side meetings when in person. Sowder thinks the question is whether we are going to substitute a virtual meeting for the hybrid meeting if the June annual conference is not held. If there is a compelling reason for committees to meet, there are resources available to hold a physical meeting.

**ACTION ITEM 6/2025-03:** Pat Schroeder to add a discussion on a virtual standards week to the next Policy Task Group meeting agenda.  
**DUE DATE:** July 8, 2025

- E. Additional Remarks  
No additional remarks were made.

#### 4. SB Vice Chair Report

- A. 2025 Standards Service Award Selection  
Todd Anselmi reported that the 2025 Standards Service Award Selection Committee recommends James S. Baker as the 2025 awardee. Baker was selected in recognition of his excellent leadership, mentorship, and service to the criticality safety standards community, thereby educating and empowering the next generation of criticality safety engineers. The following motion was made:

**MOTION:** To approve James S. Baker as the 2025 Standards Service Award recipient.

The motion was approved unanimously.

- B. Other remarks  
Anselmi mentioned that this meeting was planned at the Chicago Marriott Downtown for 2020 but not held due to COVID. The meeting in 2020 expected 900 attendees, but this meeting has over 1400 attendees. As a result, some meeting events are a bit cozier than anticipated.

#### 5. Approval of Modified Reorganization Proposal



Revised LLWRCC  
Structure\_2-13-25.xl



Revised RARCC  
Structure\_2-13-25.xl

Both the Large Light Water Reactor Consensus Committee (LLWRCC) and the Research and Advanced Reactor Consensus Committee (RARCC) reviewed the modified reorganization proposal. An open forum was held for LLWRCC and RARCC members to discuss concerns of the proposal. The most significant change is the reassignment of ANS-30.3, *Light Water Reactor Risk-Informed, Performance-Based Design*, to RARCC. No other changes were made to LLWRCC's organizational structure. Modest changes were proposed to the RARCC's organizational structure. A new subcommittee titled "Technology Inclusive" would be formed. This new subcommittee would be assigned ANS-1, *Conduct of Critical Experiments* (from the Operation of Research Reactors Subcommittee), ANS-30.3 (from LLWRCC) and ANS-GS-30.1, *Integrating Risk and Performance Objectives into New Reactor Nuclear Safety Designs*; and ANS-30.2, *Classification and Categorization of Structures, Systems, and Components for New Nuclear Power Plants* (from the Advanced Initiatives Subcommittee). Lastly, the Advanced Initiatives Subcommittee would be retitled "Advanced Reactors Subcommittee" and the Operation of Research Reactors Subcommittee would be retitled "Research and Test Reactors Subcommittee."

The following motion was made:

**MOTION:** To approve the modified reorganization with ANS-31.1, *Standard for Testing and Facilities for Space Nuclear Power and Propulsion Reactors*, assigned to the Advanced Reactors Subcommittee.

The motion was approved unanimously.

ACTION ITEM 6/2025-04: Kathy Murdoch to update ANS Collaborate and ANS records and databases to reflect the new organizational structure for LLWRCC and RARCC as approved.  
DUE DATE: July 15, 2025

## 6. Recommendation to Form New Consensus Committee on Artificial Intelligence (AI) in Nuclear Applications ([Link to Ballot](#))

(~35 minutes total)



AI-Proposal-SB-Ball AI\_White\_Paper\_4\_S  
ot-Comments.xlsx B\_Review\_4-15-25.docx

### NON-EXHAUSTIVE HIGH-LEVEL COMMENTS FROM THE STANDARDS BOARD REVIEW:

1. There is general agreement that AI standards are needed.
2. This subject is cross cutting through many if not all ANS consensus committees.
  - Due to the cross-cutting subject, consideration should be given to forming an advisory committee on AI similar to RP3C instead of a consensus committee.
  - A consensus committee on AI may need to operate differently due to the cross-cutting subject.
  - Addressing new and emerging topical areas like application of AI in ANS standards will likely prove challenging to the membership of the existing eight ANS consensus committees as it will be difficult to ensure adequate/sufficient subject matter expertise on AI across all committees.
3. Consider expanding the scope of a new consensus committee to accommodate quantum computing, robotics and automation, and other cross-cutting digital/computational technologies.

4. To ensure the success of the proposed consensus committee, membership should include professionals with expertise in AI governance and ethics, both within and outside the nuclear sector, to ensure these dimensions are meaningfully addressed in standards development. Consideration should be given to involving participants from sectors with mature AI governance frameworks, such as aerospace or finance, to provide comparative benchmarks.
5. There is a need to collaborate with other SDOs developing AI (nuclear & non-nuclear) standards.
6. Suggest developing a single GenAI standard aligned with software integrity levels (with nuclear application examples for each level), rather than a separate standard for each bespoke nuclear application.

Ahmad Al Rashdan provided some background on how he got involved in the AI proposal and where he sees a fit for ANS to become involved in AI standards. He sees a gap that ANS can fill.

Some expressed concern with potential conflicts with existing standards, particularly international standards. Members feel it is important to be aware of existing AI standards and to actively coordinate with other standards developers (nuclear and non-nuclear) to ensure consistency and avoid duplication. It was recognized that ANS would need to recruit subject matter experts in order to develop AI standards. Al Rashdan confirmed that he has looked at existing AI documents but doesn't believe there are existing AI documents for the ones suggested in the proposal. Members generally agreed that ANS should develop AI standards (or at least one AI standard).

The discussion continued exploring whether a new consensus committee for AI, possibly to include digital twins and robotics, should be formed or if AI could fit under one of the existing consensus committees. Several members feel that there is a need for many AI standards to be developed. The sentiment of the Standards Board is that a consensus committee dedicated to AI would be needed to have the appropriate subject matter expertise but that it wouldn't be necessary to stand up a new consensus committee to initiate one AI standard. The new consensus committee could be formed as AI standards are initiated before they come to the consensus committee for approval ballot. AI standards could at least temporarily be assigned to the RARCC.

The subject of whether consensus committee members need to have subject matter expertise to review and approve standards within their purview or if members could just review a standard for process was discussed. Points in the rules, policies, and procedures<sup>1</sup> were recognized requiring broad subject matter expertise for consensus committee members to perform reviews. It was also noted that it is the Standards Board responsibility to perform a process review.

The following actions were assigned:

ACTION ITEM 6/2025-05: Andrew Sowder/Don Eggett to check with ARCSC standards development organization (SDOs) on their work in artificial intelligence.  
DUE DATE: August 1, 2025

ACTION ITEM 6/2025-06: Michelle French and Pat Schroeder to work with Ahmad Al Rashdan to choose one of the proposed standards listed in the white paper and elaborate on what it would look like as a standard. (NOTE: Subsequent to the discussion, a suggestion was made for Al Rashdan to use the PINS form to elaborate on the proposal for one standard).  
DUE DATE: September 1, 2025

---

<sup>1</sup> See Articles 3.2.2 and 3.2.5 of the [Standards Committee Rules and Procedures](#), Article 3.1.1 of the [Policy Manual of the ANS Standards Committee](#), and Article 3.1 of the [ANS Standards Committee Procedures Manual for Consensus Committees](#).

## 7. Secretary Report ([Report embedded](#))



### A. General Staff Activities

Pat Schroeder summarized the [embedded](#) secretary/staff report.

### B. Exploration of Joint International Organization of Standardization (ISO)/ANS Standards (ACTION ITEM: 11/2024-01)

It has long been ANS practice to provide ISO permission to use some ANS standards as a base document for an ISO standard. While this practice promotes harmonization, no revenue is realized by ANS. The discussion of this practice at the November 2024 Standards Board meeting led to the action item for Pat Schroeder to explore development of joint ISO/ANS standards.

Schroeder provided her research on developing joint standards with ISO in her [embedded](#) secretary/staff report. Agreements (also [embedded](#)) to develop joint standards with ISO are arranged through the American National Standards Institute (ANSI). The biggest realization was that ISO does not share revenue for joint standards. ISO and ANS would both sell the joint standards, and each would keep the revenue from their own sales. ANSI would also sell the joint standards. ANS can negotiate with ANSI for a portion of their revenue.

There are several methods for developing joint standards with ISO. A standard can be developed from scratch or can choose a fast-track method if an existing standard is available. One concern expressed by ANSI was if ANS standards are US centric, meaning that the standard relies of U.S. standards and federal documents for compliance as we cannot impose other countries to follow U.S. requirements.

Members do not see joint standards with ISO as a common practice, but they thought that here may be benefit to harmonizing a few standards. Andrew Sowder reminded members of an instance that the U.S. Nuclear Regulatory Commission (NRC) has endorsed an ISO standard over an ANS standard. NRC has staff working on ANS-8 standards and staff that serve as a convenor on an ISO committee. Sowder doesn't expect this to be common practice but the exception. Members are aware that ASTM International and Institute of Electrical and Electronics Engineers develop joint standards with ISO. A suggestion was made to discuss joint ISO standards with the Advanced Reactor Codes and Standards Collaborate (ARCSC) as a first step.

ACTION ITEM 6/2025-07: Andrew Sowder and/or Don Eggett to check with ARCSC for input on developing joint standards with ISO. (NOTE: Pat Schroeder to include the discussion on the next ARCSC agenda.)

DUE DATE: July 1, 2025

## 8. Liaison Reports

### A. American Concrete Institute (ACI): Madhumita ("Mitar") Sircar

The following was reported by Mita Sircar:

- ACI 349-2023, *Nuclear Safety-Related Concrete Structures—Code Requirements and Commentary*, was published October 2024.
- ACI 349.1, *Reinforced Concrete, Designed for Thermal Effects on Nuclear Power Plant Structures*, was published in January 2025.



- ACI PRC (349-359), *Design of Nuclear Safety Related Structures for Impactive and Impulsive Loads using ACI CODE-349 and ASME Section III, Division 2 Provisions —Guide*, was published in December 2024.
- ACI PRC 349.1-18, *Report on Evaluation and Repair of Existing Nuclear Safety-Related Concrete Structures*, was issued in 2018 and is up for reapproval.

Don Eggett invited Sicar to join the ARCSC.

B. American Society of Civil Engineers (ASCE): Andrew Whittaker/Brian McDonald

The following was reported by Brian McDonald:

- ASCE 43, *Seismic Design Criteria for Structures, Systems, and Components in Nuclear Facilities*, references ACI 349.
- ASCE held a meeting a couple of weeks ago.
- ASCE is participating in ARCSC.
- ASCE is combining ASCE 43 and ASCE 4, *Seismic Analysis of Safety-Related Nuclear Structures*, into one standard. In this effort, ASCE is working with the ANS-2.26 Working Group, advanced reactor developers, and regulators. They are incorporating commercial standards and risk-informed, performance-based (RIBP) methods wherever appropriate. A draft should be ready for ballot by the end of the year.

C. American National Standards Institute (ANSI): Prasad Kadambi

No updates on ANSI.

D. American Society of Mechanical Engineers (ASME): Todd Anselmi

- Nuclear Quality Assurance (NQA)
- Strategic Committee on Nuclear Facilities (Two-way liaison)
- Other

No updated from ASME.

E. Electric Power Research Institute (EPRI): Andrew Sowder



2025 Jun 17 - ANS SB  
- EPRI liaison report.p

Andrew Sowder presented the [embedded](#) presentation. He focused on slides 12-25.

F. Health Physics Society (HPS): Jarvis Caffrey



LiaisonReport\_HPS-N  
13\_to\_ANS\_June2025.c

Jarvis Caffrey summarized his [embedded](#) report. Pat Schroeder recently heard from the ANS-GD-2.22 Working Group Co-Chair with an update and will provide that to Caffrey.

**ACTION ITEM 6/2025-08:** Pat Schroeder to provide Jarvis Caffrey an update on ANS-GD-2.22, *Environmental Radiological Monitoring at Operating Nuclear Facilities*.  
**DUE DATE:** July 1, 2025

G. Institute of Electrical and Electronics Engineers (IEEE)/Nuclear Power Engineering Committee (NPEC): Rebecca Steinman

No report provided.

H. Institute of Nuclear Power Operations (INPO): Scottman Ammons  
No report provided.

I. International Organization of Standardization (ISO)/Technical Committee (TC) 85/Subcommittee (SC)-6/U.S. Nuclear Technical Advisory Group (NTAG): Open  
The role of the ISO TC 85/SC 6 liaison is vacant due to the resignation of Donald Spellman.

ACTION: 6/2025-09: Pat Schroeder to check with Jim Herrold for an ISO liaison to the Standards Board.  
DUE DATE: July 1, 2025

J. National Council on Radiation Protection and Measurements (NCRP): Open  
The role of NCRP liaison is currently vacant.

K. Nuclear Energy Institute (NEI): Frances ("Frankie") Pimentel



NEI Report to ANS  
Standards Board for t

Frankie Pimentel provided the [embedded](#) report for NEI.

L. U.S. Department of Energy (DOE): Garrett Smith  
No report provided.

M. U.S. Nuclear Regulatory Commission (NRC): Raj Iyengar  
Ben Parks and Leah Parks recently resigned from the NRC. Raj Iyengar is representing NRC at this meeting and is expected to be nominated by NRC to be a member of the Standards Board. Iyengar reported on the following:

- The NRC sent a report to Congress last year detailing how they are addressing the Advance Act; A public meeting was held October 30, 2024.
- NRC is considering whether guidance needs to be developed related to the Advance Act.
- A public meeting was held May 6, 2025, on accelerated qualification of materials with stakeholders; a summary of the meeting was recently issued.
- NRC is collaborating with the Idaho National Laboratory on endorsement efficiencies for advanced reactor codes and standards. A public meeting on this topic was held April 4, 2024.
- The NRC held a public meeting February 11, 2025, on commercial codes and standards for advanced reactors.
- NRC is expediting a revision of RG 1.87, "Acceptability of ASME Code Section III, Division 5, 'High Temperature Reactors'" which will endorse BPVC, Section III, Division 5.
- NRC responded to ANS on May 6, 2025, regarding an endorsement request.
- NRC's asset group will be coordinating with SDOs on emerging areas.
- NRC participation in ASME's Conference for Advanced Reactor Deployment (CARD) this September is dependent on travel restrictions.

Prasad Kadambi questioned if NRC is giving more priority to endorsing ANSI/ANS-30.3-2022 because the standard is part of a regulatory engagement plan with a new developer. Iyengar explained that they are deferring the formal endorsement because it has to be reviewed in concert with the design-related submittal. Endorsing ANSI/ANS-30.3-2022 may be reconsidered once NRC completes review of the design-related submittal.



## 9. Advanced Reactor Codes & Standards Collaborative (ARCSC)



RM

Update--C&S\_Final.pdf

Don Eggett provided feedback from the Roadmap Implementation Board (RIB) meeting he attended last week. Eggett is the ARCSC Co-Chair and the representative to the RIB. ARCSC reports progress to the RIB. It is the RIB that developed the North American Advanced Reactor Roadmap (NAARR). The formation of ARSCC paralleled the formation of RIB. Standards under ARCSC responsibility fall under the “Technology Readiness” pillar in the NAARR. Proposed updates to actions in the NAARR were discussed at the RIB meeting. See the [embedded](#) slides for ARCSC actions. An updated Roadmap is expected to be issued in September 2025. A list of high priority standards from SDOs that represent ARCSC members was submitted to RIB members for their evaluation. This list of high priority standards was verified with advanced reactor developers before providing to the RIB.

Earlier this year, the NRC asked each SDO and collectively from ARCSC for a list of high priority standards which were provided last April. In addition, ARCSC has established a RIPB Task Group. They are compiling a list of available RIPB documentation as a reference and may recommend the development of a standard or guideline. Furthermore, ARCSC members are engaged in the Advanced Materials and Manufacturing Technologies (AMMT) sponsored by the U.S. Department of Energy with Mark Richter of NEI as the main point of contact. ARCSC hasn’t specifically addressed standards for small modular reactors but is considering. ARCSC is also considering advanced reactor use of commercial standards and whether this is an area for ARCSC to support. Lastly, ARCSC is considering how they can expedite standards development without funding and will be developing an action plan.

## 10. Status Report of High Priority Standards

([Report embedded](#))



HP\_Standards\_Report.docx

A number of standards were identified as a priority from the 1st ARCSC survey. Those identified as a high priority were issued for a 2<sup>nd</sup> survey to advanced reactor developers to validate the priority. See the [embedded](#) report with the status of the high priority standards listed below:

### A. Priority from ARCSC Survey #1 Validated via ARCSC Survey #2

- ANS-2.26-202x, *Categorization of Nuclear Facility Structures, Systems, and Components for Seismic Design* [revision of ANSI/ANS-2.26-2004 (R2021)]
- ANS-6.4-202x, *Specification for Radiation Shielding Materials* [revision of ANSI/ANS-6.4-2006 (R2021)]
- ANS-54.8, *Liquid Metal Fire Protection* [proposed new standard/supersedes ANS-54.8-1988 (W1998)]
- Generic guidance on risk-informed, performance-based design process (revision of the RP3C GD)

### B. Priority from ARCSC Survey #1 Not Validated via ARCSC Survey #2

- ANS-15.8-202x, *The Quality Assurance Program Requirements for Research Reactors* [revision of ANSI/ANS-15.8-1995 (R2023)]

- ANS-53.1-202x, *Nuclear Safety Design Process for Modular Helium-Cooled Reactor Plants* [revision of ANSI/ANS-53.1-2011 (R2021)]

### C. Other Priority Standards

- ANS-58.2, *Design Basis for Protection of Light Water Nuclear Power Plants Against the Effects of Postulated Pipe Rupture* [proposed new standard/supersedes ANS-58.2-1988 (W1998)]  
EPRI has agreed to pick up the project to verify/validate the equation. Optimistically, the verification can be completed by next year.

## 11. Risk-informed, Performance-based Principles and Policy Committee (RP3C) Report



RP3C June 2025 SB  
update\_dist.pptx

Brandon Chisholm presented the [embedded](#) report. He reported on RP3C actions under the SMART Matrix. RP3C and the Subcommittee on Risk Application (SCoRA) report at each other's meetings. No formal interface matrix is deemed necessary. A revision of the RP3C Guidance Document will be initiated. Several actions to socialize RP3C and the CoP have been completed. The recommendation to close out SMART Matrix actions on socializing was accepted. RP3C is considering work on concordance of RIPB terminology and a literature survey. Lastly, RP3C is making sure that standards in development using RIPB have an RP3C representative.

ACTION ITEM 6/2025-10: Pat Schroeder to add the [RP3C CoP slide](#) to the RP3C documents on the public webpage. (NOTE: This slide is available to any member to add to a presentation to further socialize the RP3C CoP.)  
DUE DATE: July 1, 2025

Dennis Henneke suggested an addition to the background section on the Project Initiation Notification System (PINS) form. Those indicating that they will use RIPB should be asked if they have working group members with RIPB expertise. The following motion was made.

**MOTION:** To modify the PINS form to include a secondary question for standards using RIPB to ask if they currently have RIPB expertise on the working group.

The motion was approved unanimously.

ACTION ITEM 6/2025-11: Pat Schroeder to update the PINS form to include a secondary question for standards using RIPB to ask if they currently have working group members with RIPB expertise.  
DUE DATE: August 1, 2025

## 12. Consensus Committee Chair Reports

(All Consensus Committee Chair reports are combined and [embedded here](#).)



June\_2025\_CC\_Chair\_Reports\_Combined

See the [embedded](#) report for each consensus committee chair's update. Any additional comments made during the review of reports are provided below by consensus committee.

- A. Safety and Radiological Analyses Consensus Committee (SRACC)  
New SRACC members were recruited at the technology expo at the 2024 ANS Winter Conference last November. Andrew Sowder added that recruiting at the expo is good practice and is recommended.
- B. Research and Advanced Reactors Consensus Committee (RARCC)  
No additional comments.
- C. Nuclear Criticality Safety Consensus Committee (NCSCC)  
No additional comments.
- D. Nonreactor Nuclear Facilities Consensus Committee (NRNFCC)  
No additional comments.
- E. Large Light Water Reactor Consensus Committee (LLWRCC)  
Since there are no auxiliary feedwater systems in development, the LLWRCC has recommended that ANSI/ANS-51.10-2020, *Auxiliary Feedwater System for Pressurized Water Reactors*, be allowed to be withdrawn administratively. Once withdrawn, the standard will remain available as a historical document and will be up to the user to determine appropriateness for use. The following action item was assigned in recognition of long-term working group openings:

ACTION ITEM 6/2025-12: Pat Schroeder to add a discussion of long-term working group openings to the next Standards Board Leadership Status Meeting agenda.  
DUE DATE: July 15, 2025

- F. Joint Committee on Nuclear Risk Management (JCNRM)  
The JCNRM formed a team to look at developing something for risk analysis of space reactors. If sufficient need and interest is found, a PINS will be developed. SCoRA is in the process of electing a new chair. The JCNRM co-chair for ASME will be stepping down. A replacement is being considered. JCNRM will need to elect the new chair.
- G. Fuel, Waste, and Decommissioning Consensus Committee (FWDCC)  
Harry Felsher with NRC recently resigned from the FWDCC stating that he no longer had support of his management. The loss of NRC support on the FWDCC is greatly concerning. Raj Iyengar will follow up with NRC.

ACTION ITEM 6/2025-13: Raj Iyengar to check into NRC's support of Harry Felsher to remain on the FWDCC.  
DUE DATE: September 1, 2025

- H. Environmental and Siting Consensus Committee (ESCC)  
No additional comments.

### 13. Task Group and Ad Hoc Committee Reports



TG\_ScopesMembers  
\_2-7-25.pdf

A. Policy Task Group (PTG) Report

Andrew Sowder reported that the PTG is very active. Meetings were held December 2024, February 2025, and April 2025. The next meeting is scheduled on July 8, 2025. The task group includes past Standards Board leadership and is used as a sounding board.

B. External Communications Task Group (ECTG) Report

Jennifer Call will be moving from the Sales Task Group Chair to the External Communications Task Group Chair. A meeting will be scheduled to discuss the role, responsibilities, and member needs.

ACTION ITEM 6/2025-14: Andrew Sowder, Todd Anselmi, Jennifer Call, and Pat Schroeder to discuss the ECTG chair roles, responsibilities, and member needs. (NOTE: Pat to facilitate the meeting.)  
DUE DATE: September 1, 2025

C. Internal Communications Task Group (ICTG) Report

Robert Becse made a presentation to the Professional Division Committee (PDC) earlier this month. His presentation summarized the brief newsletter that is prepared bi-annually for the PDC. The report was received well with many good questions asked.

D. Priority Task Group (PriTG) Report

Don Eggett hasn't called a meeting of the PriTG. He would like to put the PriTG on hold. He added that artificial intelligence could be included as a priority.

E. Sales Task Group (STG) Report

The STG has a cadence of revisiting ANS sales and marketing every three years. This would be the year for the STG to be reformed. ANS standards sales have performed well over the last 20 years with sales revenue doubling in the last 10 years. With members seeing little value in reforming the task group at this time, a recommendation was made to move the resources from the STG to the ECTG. The following motion was made:

**MOTION** to suspend the STG for two years.

The motion was approved unanimously.

## 14. Review of Open Action Items Report

A. Report on Open Action Items

Open action items were reviewed. See the Status Report of Action Items following these minutes for the report. The following new action item was assigned when reviewing open action items from previous meetings:

ACTION ITEM 6/2025-15: Andrew Sowder to follow up with the Fusion Energy Division (FED) to continue the conversation on codes and standards for fusion technologies.  
DUE DATE: November 15, 2025

B. Concurrence to Close Report of Completed Action Items



14B\_SB CLOSED  
Action Item Report f

Members were provided a few minutes to review the report of completed action items after which the following motion was made:

**MOTION:**

To close the list of completed action items.

The motion was approved unanimously. Action items approved as closed are provided above in the [embedded](#) report.

**15. Other/New Business**

- A. ANS Leadership Address  
No report provided.

ACTION ITEM 6/2025-16: Pat Schroeder to invite a member of the ANS Executive Committee to visit the Standards Board meeting and provide an update on ANS activities at the 2025 ANS Winter meeting.  
DUE DATE: October 1, 2025

- B. Summary of ANS Certification Courses Committee Activities



15B\_ANS  
Certification Market

Don Eggett presented the [embedded](#) report on the ANS Certification Courses Committee activities.

Kent Welter asked if there has been consideration to targeting overachieving students. Don confirmed that they are looking at students as part of ANS's marketing efforts for the certification courses. Requirements to take the certification classes vary. For the Nuclear 101 class, individuals should have two to three years of experience.

- C. Emergent Issues and Other Business  
No additional issues were discussed.

**16. Member Feedback**

Members joining in-person and virtually shared positive feedback on the meeting. Many feel that participating in person is beneficial. A suggestion to have some snacks at the meeting was made.

**17. Review of Action Items from This Meeting**

Action items were reviewed and confirmed.

**18. Future Meetings**

The SB is expected to meet on Tuesday of the following two 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, CO, at the Sheraton Denver, May 31–June 3, 2026

**19. Adjournment**

The meeting was adjourned.

## Standards Board OPEN Action Item Report—6/17/25 Meeting

Action Item	Description	Responsibility	Status/Comments
6/2025-01	Andrew Sowder, Amir Afzali, Doug Bowen, Don Eggett, Steve Krahn, and Pat Schroeder to work on planning the Standards Breakfast Roundtable at the 2025 ANS Winter Conference. (Schroeder to facilitate a meeting to start the planning.) DUE DATE: August 1, 2025	Sowder, Afzali, Bowen, Eggett, Krahn, Schroeder	OPEN
6/2025-02	Pat Schroeder to invite promoted associate members to the Standards Breakfast Roundtable to share their experiences. DUE DATE: September 1, 2025 (or after the planning meeting)	Schroeder	OPEN
6/2025-03	Pat Schroeder to add a discussion on a virtual standards week to the next Policy Task Group meeting agenda. DUE DATE: July 8, 2025	Schroeder, PTG	OPEN
6/2025-04	Kathy Murdoch to update ANS Collaborate and ANS records and databases to reflect the new organizational structure for LLWRCC and RARCC as approved. DUE DATE: July 15, 2025	Murdoch	OPEN
6/2025-05	Andrew Sowder/Don Eggett to check with ARCSC standards development organization (SDOs) on their work in artificial intelligence. DUE DATE: August 1, 2025	Sowder, Eggett	OPEN
6/2025-06	Michelle French and Pat Schroeder to work with Ahmad Al Rashdan to choose one of the proposed standards listed in the white paper and elaborate on what it would look like as a standard. (NOTE: Subsequent to the discussion, a suggestion was made for Al Rashdan to use the PINS form to elaborate on the proposal for one standard). DUE DATE: September 1, 2025	French, Schroeder	OPEN
6/2025-07	Andrew Sowder and/or Don Eggett to check with ARCSC for input on developing joint standards with ISO. (NOTE: Pat Schroeder to include the discussion on the next ARCSC agenda.) DUE DATE: July 1, 2025	Sowder, Eggett	OPEN
6/2025-08	Pat Schroeder to provide Jarvis Caffrey an update on ANS-GD-2.22, <i>Environmental Radiological Monitoring at Operating Nuclear Facilities</i> . DUE DATE: July 1, 2025	Schroeder	OPEN
6/2025-09	Pat Schroeder to check with Jim Herrold for an ISO liaison to the Standards Board. DUE DATE: July 1, 2025	Schroeder	OPEN
6/2025-10	Pat Schroeder to add the RP3C CoP slide to the RP3C documents on the public webpage. (NOTE: This slide is available to any member to add to a presentation to further socialize the RP3C CoP.) DUE DATE: July 1, 2025	Schroeder	OPEN
6/2025-11	Pat Schroeder to update the PINS form to include a secondary question for standards using RIPB to ask if they currently have working group members with RIPB expertise. DUE DATE: August 1, 2025	Schroeder	OPEN
6/2025-12	Pat Schroeder to add a discussion of long-term working group openings to the Standards Board Leadership Status Meeting agenda. DUE DATE: July 15, 2025	Schroeder	OPEN



6/2025-13	Raj Iyengar to check into NRC's support of Harry Felsher to remain on the FWDCC. DUE DATE: September 1, 2025	Iyengar	OPEN
6/2025-14	ACTION ITEM 6/2025-14: Andrew Sowder, Todd Anselmi, Jennifer Call, and Pat Schroeder to discuss the ECTG chair roles, responsibilities, and member needs. (NOTE: Schroeder to facilitate the meeting.) DUE DATE: September 1, 2025	Sowder, Anselmi, Call, Schroeder	OPEN
6/2025-15	Andrew Sowder to follow up with the Fusion Energy Division (FED) to continue the conversation on codes and standards for fusion technologies. DUE DATE: November 15, 2025	Sowder	OPEN
6/2025-16	Pat Schroeder to invite a member of the ANS Executive Committee to visit the Standards Board meeting and provide an update at the 2025 ANS Winter meeting. DUE DATE: October 1, 2025	Schroeder	OPEN
5/2025-01	Raj Iyengar to follow up with Doug Bowen on ANS standards being looked over in lieu of ISO standards analogous to ANS-8 standards. DUE DATE: September 1, 2025	Iyengar	OPEN This action item was reassigned to Raj Iyengar.
5/2025-02	Members to provide comments and suggestions on the SMART Matrix to Todd Anselmi (with Pat Schroeder and Kathy Murdoch on copy.) NOTE: Todd Anselmi to provide instructions for commenting to Schroeder for distribution with the SMART Matrix.) DUE DATE: June 30, 2025	Members, Anselmi, Schroeder	OPEN
5/2025-03	Pat Schroeder to invite those in the ANS mentor program to stop by the Standards Breakfast Roundtable being planned for the 2025 ANS Winter Meeting. DUE DATE: September 1, 2025	Schroeder	OPEN
5/2025-04	Pat Schroeder to schedule the Standards Board meeting in November 2025 to start at 10:00am eastern. DUE DATE: August 1, 2025	Schroeder	OPEN
1/2025-02	RP3C leadership to reassess SMART Matrix Actions 1Ca&b. a. Consensus committee and working group chairs to provide feedback on the approach and status of incorporation of RIPB methods in active standards development and the use of the recent RIPB "trial use" Guidance Document. b. 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).	Krahn, Chisholm	CLOSED  This action was added to the SMART Matrix.
1/2025-03	Pat Schroeder to include SMART Matrix Action 2A, "Improve the process and efficiencies for the development and maintenance of ANS standards," on the Policy Task Group's agenda for their February 18, 2025, meeting to consider a systematic review to determine needed actions to fulfill 2A.	Schroeder	CLOSED Discussed by PTG @ 2/18/25 meeting. This relates to the writeup by Jim O'Brien "ANS Standards Development Opportunities for Improvement." In response, the PTG has taken the following actions 1) update and expand the ANS Style Manual w/examples of how

			to write a standard, 2) a metric on completion of the PIP was added to the annual CC evaluation, and 3) small group was formed on the utilization of the PIP form is being led by T. Anselmi. This has been noted on the SMART Matix.
1/2025-05	Andrew Sowder and Pat Schroeder to work on a communication blitz to solicit members for the Internal Communications Task Group and the External Communications Task Group.	Sowder, Schroeder	CLOSED The ICTG has sufficient members to fulfill their charter. J. Call has accepted the ECTG chair role. ACTION ITEM 6/2025-14 was assigned for SB leadership to meet with Call to discuss roles, responsibilities, and member needs.
11/2024-14	Pat Schroeder to provide Gale Hauck the Standards Service Award Policy to revise to include diversity.	Schroeder, Hauck	CLOSED Schroeder updated the entire Policy Manual and provided to SB leadership for review before sending to the PTG.
10/2024-03	PriTG to 1) develop a process to use ANS funds, 2) vet uses of the ANS funds, and 3) report suggestions to the Standards Board for concurrence. DUE DATE: September 1, 2025	PriTG	OPEN
6/2024-05	Andrew Sowder to follow up with the Fusion Energy Division (FED) to convey work in C&S for fusion technology.	Sowder	CLOSED Sowder reached out to the FED during the ANS Annual conference questioning whether ANS should initiate fusion standards. The reception was very positive. ACTION ITEM 6/2025-15 was assigned for Sowder to continue the discussion with the FED.
6/2024-09	Sales Task Group to regroup in 2027 to discuss additional improvements to increase standards sales. (NOTE: Standards Board to evaluate need to reform.) DUE DATE: June 1, 2027	Sales Task Group	OPEN SB leadership does not see an immediate need to reactivate the STG. This action will be revisited in two years – June 2027.
5/2024-01	Andrew Sowder to reach out to NNSA for their international perspective on nonproliferation standards/guidance. Based on the information from the NNSA, Sowder will decide if further investigation is needed with INMM and IAEA documents that may be available and whether research is need on European Union, Japan, and Canada efforts and the <a href="#">“International Convention on the Suppression of Acts of Nuclear Terrorism.”</a> DUE DATE: September 1, 2025	Sowder	OPEN  Andrew’s understanding is that INMM’s role is non-proliferation standards/guidance.  John Fabian has talked to INMM in regard to their journal. He will ask INMM for a report on their nonproliferation activities.
5/2024-02	Andrew Sowder to let the Nuclear Nonproliferation Policy Division Vice Chair [Shikha Prasad] know of the Standards Board discussion on nuclear nonproliferation standards and get their input. DUE DATE: November 1, 2025	Sowder	OPEN
12/2023-04	Andrew Sowder to check with Dr. Pekka Pyy about ANS having a liaison role with NHSI’s WG 2.	Sowder	CLOSED Email sent during June 2024 meeting and other messages sent without response.

11/2023-13	Larry Wetzel to provide the Glossary Review Team NCSCC's feedback on preferred ANS-8 terms. DUE DATE: November 1, 2025	Wetzel	OPEN Work continues on the NCSCC glossary.
11/2023-16	The Standards Board to revisit the formation of the EAC in a year. DUE DATE: November 1, 2025	Standards Board	On Hold A hold was put on this action due to work with ARCSC. ARCSC actions are through 2025. This action was extended until November 2025.
6/2023-04	Pat Schroeder to work with John Fabian to explore the establishment of a formal program with universities for limited access to ANS standards including the possibility of "hosting" or having a reseller "host" a platform with e-access to students with ANS Publications Director, John Fabian. DUE DATE: April 1, 2026	Schroeder	OPEN John Fabian reported that good progress is being made on developing an ANS digital platform. The platform will host all of ANS's publications including our standards. He is hoping to test the platform by the end of this year (2025) and launch the platform at the beginning of next year. The goal is to have it ready for use by Q1 2026.  Once that platform is built, it will incorporate an LLM chatbot to make the user interface easier and more intuitive and will allow creation of subscription packages for different groups such as universities.
6/2023-15	Don Eggett to follow up on organization's copyright infringing on ANS documentation. John Fabian, ANS Publications Director, will discuss with the ANS attorney. (Note: This is a follow up action to ACTION ITEM 6/2021-17.) DUE DATE: September 1, 2025	Eggett, Fabian	OPEN Fabian has been working on the copyright statement with the attorney. A copyright statement for all ANS publications has been developed and will be shared with the Standards Board.
6/2023-16	Andrew Sowder to recruit a liaison from the National Council on Radiation Protection and Measurements for the SB. DUE DATE: November 1, 2025	Sowder	OPEN IEEE/NPEC & HPS liaisons have been appointed. This action was amended to include only NCRP.