

Standards Board (SB)

June 18, 2024

Mandalay Bay Resort, Las Vegas, Nevada

Attended	Voting Member Name	Role	Company
x	Todd Anselmi	Vice Chair (2023) At-Large (2026)	Idaho National Laboratory
x*	Andrea Maioli (Westinghouse) for Dennis Henneke	Ex-Officio	GE Hitachi
	Robert Becse	At-Large (2025)	Westinghouse Electric Company LLC
x*	Robert Budnitz	At-Large (2026)	Consultant
x*	Jennifer Call	At-Large (2027)	Tennessee Valley Authority
x	Brandon Chisholm	At-Large (2026)	Southern Company
	Michelle French	Ex-Officio	Westinghouse Government Services
x	Gale Hauck	Ex-Officio	Oak Ridge National Laboratory
x	Mark Joseph	Ex-Officio	Navarro Research & Engineering
x*	Robert Kalantari	At-Large (2025)	Engineering Planning & Management, Inc.
x	Jean-Francois "Jef" Lucchini	Ex-Officio	Los Alamos National Laboratory
x*	Leah Parks (NRC) for Carl Mazzola	Ex-Officio	Los Alamos National Laboratory
x*	Frances "Frankie" Pimentel	At-Large (2026)	Nuclear Energy Institute
x	Mehdi Reisi-Fard	At-Large (2025)	U.S. Nuclear Regulatory Commission
x*	Andrew Smetana	Ex-Officio	Individual
x	Andrew Sowder	Chair (2023) At-Large (2026)	Electric Power Research Institute
x*	Kent Welter	At-Large (2026)	NuScale Power
x*	Larry Wetzol	Ex-Officio	Individual
16	16/18 Votes = 88.89% Participation		
Attended	Nonvoting Members and Guests Name	Role	Company
x*	James August	Guest	Individual
x*	Douglas Bowen	Observer	ORNL
x*	Amir Afzali	Observer	Aalo Atomic
x*	Jarvis Caffrey	HPS Liaison	NASA
x	Donald Eggett	Observer	Eggett Consulting, LLC
x*	George Flanagan	Observer	Individual
x*	Greg Hudson	Guest	Metcalfe PLLC
x	Julie Jarvis	Guest (SRACC Vice Chair)	Defense Nuclear Facilities Standards Board
x	N. Prasad Kadambi	RP3C Chair/ANSI Liaison	Kadambi Engineering Consultants

x	Steven Krahn	Observer	Vanderbilt University
x*	Mark Linn	Observer	Individual
x*	Benjamin Parks	Observer	U.S. Nuclear Regulatory Commission
x	Kenneth Peterson	Guest	ANS President
x*	Donald Spellman	Observer/ISO-NTAG Liaison	Individual
x	Robert Youngblood	Guest (RP3C Vice Chair)	Idaho National Laboratory

**participated remotely*

1. Welcome and Roll Call

SB Chair Andrew Sowder initiated the meeting. He welcomed all. Roll call was taken, and a quorum was achieved.

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

Andrew Sowder provided a brief summary of the [embedded](#) report to the ANS Board of Directors.



3A_SB
Chair_2024_ANNUAL

The Large Light Water Reactor Consensus Committee (LLWRCC) formed an ad hoc committee on artificial intelligence (AI) to explore AI standards for nuclear applications. Ahmad Al Rashdan and James August are the leads with Pat Schroeder providing support. A survey seeking information and interest from the full Standards Committee was issued in February 2024. The responses were overwhelmingly positive although not unanimous. All survey participants were invited to serve on an ad hoc committee. The ad hoc committee held meetings in May and June. The ad hoc committee's sentiment is that 1) AI standards do not specific fit within an existing consensus committee although overlap with most is recognized and 2) there are a sufficient number of AI standards to be developed that warrant a new consensus committee be formed. Currently, a white paper with the ad hoc committee's proposal is being prepared by the leads for review at the LLWRCC's July 15, 2024, meeting. Ultimately, the proposal will be sent to the SB for consideration and approval. If approved, the Standards Board would be responsible for appointing members to the new consensus committee. The ad hoc committee will be kept up to date with the status of the proposal but may not hold another meeting. This is dependent on the direction of the LLWRCC and the SB. Anyone interested may contact Schroeder to be included on the ad hoc committee's distribution for updates.

B. Advanced Reactor Codes & Standards Collaborative (ARCSC)

- ARCSC Report

- General Update

- The ARCSC core team continues to meet bi-weekly with a full day hybrid meeting scheduled on August 1, 2024, at the offices of the Nuclear Energy Institute (NEI) in Washington D.C.

The meeting will focus on responding to the ARCSC gap assessment survey issued last year. A public meeting to report out on the survey responses will likely be scheduled the end of 2024. The ARCSC was formed with the support of NEI and the Electric Power Research Institute (EPRI) as an action under the NEI/EPRI North American Advanced Reactor Roadmap (NAARR). ARCSC has participation from many standards development organizations (SDOs) and industry representatives including a couple of international representatives.

- Donald Eggett transitioning into ARCSC co-chair role
Sowder recognized that Don Eggett was transitioning into the ARCSC Co-chair role, and that Pat Schroeder has taken over as secretary. Eggett reported on the NAARR request for a pilot project to develop and execute a pilot project that applies risk-informed, performance-based (RIPB) methods in development of a new advanced reactor standard. This is Action 2 within the Codes & Standards section of the Roadmap with a deadline of the end of 2025. Eggett added that the August 1st ARCSC meeting will also consider what pilot project to proceed with and priorities of the survey. A few pilot projects have been proposed including one utilizing the Risk-informed, Performance-Based Principles and Policy Committee's (RP3C) Guidance Document and one using the American Society of Mechanical Engineer's (ASME's) Plant Systems Design standard currently in development.

Prasad Kadambi explained that for the first time that he is aware, someone from the industry has come forward and made a request of ANS on ANS-2.26, *Categorization of Nuclear Facility Structures, Systems, And Components for Seismic Design*. Kadambi will be covering this in his RP3C report later in the day. He feels that ARCSC should pick up on this. It is an opportunity to let industry know that they are responsive to their needs.

- Status of Responses to ARCSC survey feedback
The Priority Task Group under Eggett has been leading the effort to collect responses to feedback from the ARCSC survey. Meetings were held with consensus committee leadership followed by meetings with subcommittee and working group chairs. Responses have been collected and a draft briefing document has been prepared. Eggett will provide more details under his Priority Task Group report.

C. Additional Remarks

- Recognitions
 - N. Prasad Kadambi leadership of RP3C 2013-2024
Kadambi was recognized for his leadership of the RP3C from 2013 to 2024 and for founding this special committee. He was presented a certification of appreciation at yesterday's RP3C meeting. Robert Budnitz added that Kadambi was also chair of the SB before chairing RP3C. These roles span two decades in leadership roles.
 - Donald Eggett Presidential Citation June 2024
Eggett was recognized for receiving the Presidential Citation at this meeting for his many contributions to ANS including his recent term as SB Chair.
- SB member support to communicate with ANS Professional Divisions
Sowder requested that SB members and observers take the opportunity when they can to provide briefings to their Professional Divisions. Todd Anselmi made a standards presentation to the Professional Division Committee (PDC) last Sunday. He explained that a PDC member came to him and asked about robotics standards. A question was asked at the RP3C meeting if there is a connection between standards and the ANS certification program currently in development. Brandon Chisholm added that it was Dan Moneghan (at the RP3C meeting) that

suggested a certificate program for members to understand the methodology of RIPB. Eggett has been involved with the ANS certification program and wrote a module on standards which was reviewed by Sowder. In general, Standards Board members are in favor of expanding the standards module but agreed that it would be best to wait until after the ANS certification program is launched and interest is better known.

ACTION ITEM 6/2024-01: Standards Board to consider a certification program on standards development after the ANS certification program has been launched.

DUE DATE: November 1, 2024

- **Reminder of ANS Respectful Behavior Policy**
Sowder provided a gentle reminder for members to be cognizant of all communications with others in the course of their standards work. All communications should be professional. He recognized the strength in the diversity of knowledge and experiences shared by all. Additionally, Sowder asked that members be aware that email communications can be hard for the recipient to read the tone and may warrant more careful crafting.

4. SB Vice Chair Report

A. Status of Standards Committee Strategic Plan and SMART Matrix

Todd Anselmi shared an advanced look at the revised Strategic Plan and the SMART Matrix. The revision will update the Strategic Plan so that it includes only high-level goals and objectives, leaving the SMART Matrix used for more specific actions. One addition to the Strategic Plan will be adding an initiative on international standards. Members recognized that the international marketplace is becoming more important. Andrew Sowder explained that right now the NAARR is concentrating on North America, but the goal is to broaden the efforts internationally. The ARCSC has international participation. Details such as developing standards in new areas like AI and space reactors will be included in the SMART Matrix.

Steven Krahn stated that he was at an international Atomic Energy Agency (IAEA) conference, and the term they are using is harmonization. He thought this could be added to the Strategic Plan.

ACTION ITEM 6/2024-02: Pat Schroeder to add an agenda item for the Policy Task Group to review the revised Strategic Plan at their next meeting.

DUE DATE: September 1, 2024

Robert Budnitz questioned whether we should do something about the confusion of the terms “Standards Board” and the “Standards Committee.” The Standards Board is the top-level governance body while the Standards Committee is a collective term that refers to everyone that participates in ANS standards (i.e., working group members, subcommittee members, consensus committee members, and the Standards Board). Members agreed that these terms can be confusing, especially to someone outside of the Standards Committee.

ACTION ITEM 6/2024-03: Robert Budnitz and Don Spellman to clarify the terminology of “Standards Board” and “Standards Committee” and to find a prominent place to provide this clarification.

DUE DATE: November 1, 2024

B. Standards Service Award

- **2024 Standards Service Award Recipient**

Anselmi recognized Larry Wetzel as the 2024 Standards Service Award recipient. The award recognized his twenty plus years of participation and leadership in ANS-8 standards, service on the Nuclear Criticality Safety Consensus Committee, work stressing the importance of standards to young professionals, and efforts highlighting the importance of synergy among the ANSI/ANS standards to maintain safe operation of nuclear facilities.

- Selection of 2025 Standards Service Award Selection Committee
Andrew Sowder stressed the importance of recognizing peers with the Standards Service Award. He would like to see many more nominations of worthy candidates in 2025.

ACTION ITEM 6/2024-04: Todd Anselmi (lead), Larry Wetzel, Jef Lucchini, and Steven Krahn to serve as the 2025 Standards Service Award Selection Committee.
DUE DATE: May 1, 2025

C. Additional Remarks

The Defense Nuclear Facilities Safety Board (DNFSB) reached out to ANS to draw on our experience in developing requirements and guidance centered on aging infrastructure management. The DNFSB is specifically interested in ANSI/ANS-3.14-2021, *Process for Infrastructure Aging Management and Life Extension of Nonreactor Nuclear Facilities*, to inform potential enhancements to U.S. Department of Energy's current regulatory approach. An ANS representative was invited to participate in an upcoming public hearing intended to benchmark aging management practices applicable to high-hazard work. The hearing will be held on August 8 and August 14, 2024. Anselmi as the ANS-3.14 Working Group Chair will be representing ANS on both days.

5. Secretary Reports



5_Sec-Staff_Report.docx

Schroeder presented the [embedded](#) staff report.

6. Liaison Reports

(External Liaisons to the Standards Board)

A. U.S. Nuclear Regulatory Commission (NRC): Mehdi Reisi-Fard



6A_NRC Report
June 2024.pdf

Reisi-Fard presented the [embedded](#) NRC Liaison Report. Of particular interest was the workshop hosted jointly by NRC and the Idaho National Laboratory on April 4, 2024, to discuss codes and standards (C&S) applicable to new and advanced reactors. The objective of this event was to solicit input and identify opportunities to enhance aspects of the NRC's C&S program and to increase the efficiency of NRC's licensing and oversight of new and advanced reactors. Further, the event sought insights on both the C&S needed and the effectiveness of the NRC's program to provide timely review and endorsement. The meeting summary is available at ADAMS Accession No. ML24123A019. The action plan from the workshop will be made publicly available in the near future.

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

- C. Nuclear Energy Institute (NEI): Frances Pimentel
Frances Pimentel presented the [embedded](#) NEI liaison report.



6C_NEI Report to
ANS Standards Board

- D. Institute of Nuclear Power Operations (INPO): Scottman Ammons
No report provided.
- E. American Concrete Institute (ACI): Open
- F. American National Standards Institute (ANSI): Prasad Kadambi
ANSI will have a [Brainstorming Session on Enabling Artificial Intelligence and Machine Learning Through Public-Private Partnerships](#) on July 17, 2024. The meeting will be held in a suburb of Virginia with a remote option for participating.
- G. American Society of Civil Engineers (ASCE): Andrew Whittaker
Whittaker had a conflict with today's SB meeting. He provided a written report in advance. The report is [embedded](#) below.



6G_ASCE Nuclear
Standards Update to

- H. Electric Power Research Institute (EPRI): Andrew Sowder
Sowder presented the [embedded](#) EPRI liaison report.



6H_EPRI_LiaisonRpt_S
B_6-18-24.pdf

<p>ACTION ITEM 6/2024-05: Andrew Sowder to follow up with the fusion professional division to convey work in C&S for fusion technology. DUE DATE: November 1, 2024</p>

- I. Health Physics Society (HPS): Jarvis Caffrey
Jarvis Caffrey provided a brief introduction on his background since he is new as the HPS liaison to the SB. Caffrey works for NASA but is representing HPS and also represents ANS on the HPS N13 Committee. Caffrey has taken the place of Ali Simpkin as the HPS liaison to the SB. Caffrey presented the [embedded](#) report.



6I_HPS-N13_LiaisonR
eport to SB_6-18-24.p

- J. Institute of Electrical and Electronics Engineers (IEEE)/Nuclear Power Engineering Committee (NPEC): Open

- K. International Organization of Standardization (ISO)/Technical Committee (TC) 85/Subcommittee (SC)-6/U.S. Nuclear Technical Advisory Group (NTAG): Donald Spellman Spellman presented the [embedded](#) ISO/TC 85/SC-6/NTAG report. He encouraged SB members to let Pat Schroeder know if they are interested in joining NTAG to have input on ISO standards and would like ANS to sponsor their membership in NTAG.



6K_ISO NTAG
Report to ANS Stanc

- L. NCRP: Open

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



7_RP3C Report to
SB_6-18-2024.pptx

RP3C Chair Prasad Kadambi with assistance from Robert Youngblood and Brandon Chisholm presented the [embedded](#) report. Kadambi emphasized that RP3C is an advisory committee and takes direction from the SB including formal balloting. Andrew Sowder added that the RP3C exists because the SB created it. The RP3C serves at the pleasure of the SB. Progress on RP3C pilots can be found in the [embedded](#) presentation from yesterday's RP3C meeting.

Sowder explained a relatively new step that has been put in place. When working groups complete a draft, ANS staff asks the subcommittee chair to compare the draft with the Project Initiation Notification System (PINS) form to ensure consistency. This includes consistency with the working group's response to the question on the use of RIPB methods.

Kadambi explained a request that Oklo made yesterday at the RP3C for changes to ANSI/ANS-2.26-2004, *Categorization of Nuclear Facility Structures, Systems, and Components for Seismic Design*. The proposed changes include the following:

- ANS can reinstate the ability for code users to characterize and design their structures, systems, and components based on the International Building Code, ASCE-7, and U.S. Geological Survey via ANS-2.26 (or ASCE 43).
- The current version of ANS-2.26 excludes power reactors, and this statement should be updated, because ASCE 43 (whether the 2005 or 2019 version) points to ANS-2.26 for seismic design category selection for power reactors.
- Further, the existing DOE precedent that exercises ANS-2.26 is antiquated and cannot be effectively used by the advanced reactor fleet. There is a need for a new precedent to demonstrate how these standards can be effectively utilized.

ACTION ITEM 6/2024-06: Prasad Kadambi and Todd Anselmi to provide Oklo's request to the Environmental and Siting Committee and the ANS-2.26 Working Group to address Oklo's request. (NOTE: Based on the response from the ANS-2.26 Working Group, Don Eggett may suggest that the revision of ANS-2.26 be considered a candidate pilot for the NAARR Action 2.
DUE DATE: November 1, 2024

8. Consensus Committee Chair Reports

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



8A-H_Combined_CC
C_Rpts_June_2024.p

- A. Environmental and Siting Consensus Committee (ESCC) (Parks for Mazzola)
ESCC Vice Chair Leah Parks presented the ESCC report on behalf of ESCC Chair Carl Mazzola. The combined report for each consensus committee can be found [embedded](#) above. In addition to the membership changes on the report, Parks recognized that an invitation was extended to Emma Redfoot with Oklo to join the ESCC. Her membership is currently being confirmed by the ESCC. The intent of inviting Redfoot to join the ESCC was to have a closer interface with Oklo on the committee's seismic standards, especially ANS-2.26. Parks believes that the need to revise the PINS for ANS-2.26 to accommodate advanced reactors would be made in the future as more work is completed.
- B. Fuel, Waste, and Decommissioning Consensus Committee (FWDC) (Lucchini)
FWDC Chair Jef Lucchini presented the FWDC report. The combined report for each consensus committee can be found [embedded](#) above. The resignation of Mitchell Sanders earlier this year was a great loss. He held a subcommittee chair role and the role of working group chair for several projects. Lucchini has a lead on a new member with potential interest in a subcommittee chair role. He will also be checking with FWDC members for interest in filling the subcommittee chair position.
- C. Joint Committee on Nuclear Risk Management (JCNRM) (Maioli for Henneke)
JCNRM Vice Chair Andrea Maioli presented the JCNRM report on behalf of JCNRM Chair Dennis Henneke. The combined report for each consensus committee can be found [embedded](#) above. Maioli added that NRC has acknowledged plans to endorse several of the JCNRM standards in development.
- D. Large Light Water Reactor Consensus Committee (LLWRCC) (French)
LLWRCC Chair Michelle French's report for LLWRCC was reviewed in her absence. The combined report for each consensus committee can be found [embedded](#) above.
- E. Nonreactor Nuclear Facilities Consensus Committee (NRNFCC) (Joseph)
NRNFCC Chair Mark Joseph presented the NRNFCC report. The combined report for each consensus committee can be found [embedded](#) above.
- F. Nuclear Criticality Safety Consensus Committee (NCSCC) (Wetzel)
NCSCC Chair Larry Wetzel presented the NCSCC report. The combined report for each consensus committee can be found [embedded](#) above. The NCSCC tasked the subcommittee with clarifying the term "facilities" as several different definitions for this term were found in ANS-8 standards. The committee is thinking about eliminating the term from the list of definitions in ANS-8 standards. Todd Anselmi thought that we could look to other ANS standards and possibly to other SDOs for a definition. Wetzel will keep Mark Linn updated on ANS-8 definitions. The need for new members on the ANS-8.14 and ANS-8.17 Working Groups was questioned.

<p>ACTION ITEM 6/2024-07: Pat Schroeder to confirm that the ANS-8.14 and ANS-8.17 Working Groups are in need of additional members and update the NCSCC's staffing needs report accordingly. DUE DATE: August 1, 2024</p>

- G. Research and Advanced Reactors Consensus Committee (RARCC) (Hauck)

RARCC Chair Gale Hauck presented the RARCC report. The combined report for each consensus committee can be found [embedded](#) above. A resurrection of withdrawn standard ANS-54.8, *Liquid Metal Fire Protection*, was recognized as a high priority. The proposal to revise ANS-54.8 is a two-step process. The first step would be to resurrect the withdrawn standard with minimal changes to get the standard approved as soon as possible—possibly by the end of this year/early next year. The second step would be for the working group to initiate work on a full revision of the standard which would include use of RIPB methods. Lastly, Hauck acknowledged that Thomas Newton’s term as RARCC vice chair and chair of the Operation of Research Reactors Vice Chair will expire soon. RARCC members will be made aware of this opportunity.

- H. Safety and Radiological Analyses Consensus Committee (SRACC) (Smetana)
SRACC Chair Andrew Smetana presented the SRACC report. The combined report for each consensus committee can be found [embedded](#) above. Of significance, draft standard ANS-19.13, *Initial Fuel Loading and Startup Tests for FOAK Advanced Reactors*, will be issued to SRACC for ballot shortly. Smetana is working to improve the committee’s balance of interest.

ACTION ITEM 6/2024-08: Pat Schroeder to reverse the order of consensus committee chair reports for the next meeting.

DUE DATE: November 1, 2025

9. Task Group Reports

- A. Policy Task Group (PTG) Report (Sowder)



9A_PTG_Report_6-18-24.docx

The PTG has been very active. The above [embedded](#) report reflects the activities of four meetings recently held.

- B. External Communications Task Group (ECTG) Report (Open)
Members see some redundancy of the ECTG with the proposed Executive Advisory Committee (EAC) and the ARCSC. Don Eggett provided some background on the EAC. The EAC has been put on hold due to the ARCSC and resources. It was recognized that the ARCSC focuses on advanced reactors while EAC covers all. Both Gale Hauck and Leah Parks are on the ANS External Affairs Committee and can provide some level of communication outside of ANS.

- C. Internal Communications Task Group (ICTG) Report (Becse)
Becse had a conflict with the SB meeting due to the change of week. The PDC Standards Brief, presented to the PDC at their meeting last Sunday by Todd Anselmi, is [embedded](#) below for reference.



9C_PDC_Std_Brief_June_2024_FINAL.pdf

- D. Priority Task Group (PriTG) Report (Eggett)



9D_ANS Actions & Priorities_2_ARCSC_!

The [embedded](#) report with a briefing of the actions and priorities was presented by Don Eggett. The report will be presented to the ARCSC at their meeting on August 1, 2024, and used at the NEI's Nuclear Energy Assembly conference this September.

E. Sales Task Group (STG) Report (Call)

The STG has had no actions this year. A three-year cadence has been set. The group will reform in 2025.

ACTION ITEM 6/2024-09: Sales Task Group to regroup in 2025 to discuss additional improvements to increase standards sales. (NOTE: Last report at June 2022 meeting; next report should be June 2025.)
DUE DATE: June 1, 2025

ACTION ITEM 6/2024-10: Pat Schroeder to change the agenda item for task group reports to include ad hoc committee reports including the Artificial Intelligence Ad Hoc Committee.
DUE DATE: November 1, 2024

10. Capturing Synergies Between the Research and Advanced Reactor Consensus Committee (RARCC)/Large Light Water Reactor Consensus Committee (LLWRCC) and Potential Reorganization



10_New CC table
with SCs.xlsx

Todd Anselmi shared background on the two activities that were going on in parallel—1) a discussion on capturing synergies between RARCC and LLWRCC and 2) a reorganization to utilize all consensus committees and to better position the ANS Standards Committee for future needs of the industry. Mark Linn explained that the thought of capturing synergies started in the LLWRCC a few years ago. It is felt that there is benefit in advanced reactor work capitalizing on existing large light water work—for each consensus committee to learn from each other and not waste resources. The proposal prepared by Don Spellman would be a reorganization involving several consensus committees (see [embedded](#) table). The proposal affects four of the eight consensus committees. Larry Wetzel questioned whether the proposed new consensus committees would have the appropriate expertise to approve standards within the purview. That is, could they adequately review all of the standards within their scope. Gale Hauck feels that the RARCC is working well and questions the benefit of making any changes. RARCC's focus is expanding and looking at areas that do not have standards and would be of use. Operational advanced reactors are years to come. Hauck feels that a reorganization at this time is premature. She doesn't see an overlap with the LLWRCC but recognizes the benefit of capturing synergies between the two committees.

Sowder stated that the intent of the discussion was not to be solved today. The feedback will be discussed with the Policy Task Group at their next meeting.

ACTION ITEM 6/2024-11: Pat Schroeder to add an agenda item for the Policy Task Group to discuss the proposed reorganization at their next meeting.
DUE DATE: September 1, 2024

11. Current and Emergent Issues

A. Glossary Report



11(A)_Glossary
Report March 12 20:

The ad hoc committee that looked at the glossary included James August, Brandon Chisholm, Mehdi Reisi-Fard, and Mark Linn as lead. This ad hoc committee was formed after the Glossary Task Group completed their work and issued an updated glossary in 2023. The ad hoc committee was formed as a result of several problems identified during the 2023 update of the glossary. August and Linn were on the Glossary Task Group and part of the group that identified concerns. The Glossary Ad Hoc Committee first decided on their scope and focus. Linn summarized the process used by the ad hoc committee. They found that the definitions generally did not speak to the purpose of the glossary. They suggested having a global glossary with one term and separate glossaries for consensus committee specific definitions. The Nuclear Criticality Safety Consensus Committee is already developing a glossary specific to the ANS-8 series of standards.

The challenge with multiple definitions for a single term was not considered unique to ANS, but it may be more prevalent due to the broad scope of the ANS Standards Committee. SB members were asked to digest the glossary report and decide how best to address, which one may be to do nothing. The Policy Task Group will consider the Glossary Ad Hoc Committee's recommendation at their next meeting.

ACTION 6/2024-12: Standards Board members to review the Glossary Ad Hoc Committee Report.
DUE DATE: September 1, 2024

ACTION ITEM 6/2024-13: Pat Schroeder to add an agenda item for the Policy Task Group to consider the Glossary Ad Hoc Committee's recommendations at their next meeting.
DUE DATE: September 1, 2024

- B. Other
There were no other items discussed.

12. 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.
- B. Concurrence to Close Report of Completed Action Items



12B_SB CLOSED
Action Item Report.c

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.

13. Other/New Business

A. ANS Leadership Address

Kenneth Petersen stopped into the Standards Board meeting to offer his appreciation to members for their work in modernizing ANS standards.

B. Other Business

Todd Anselmi was at a meeting where Petersen presented statistics for ANS membership. Young members represent one-third of the total of ANS members. He feels that we need to foster more growth from young members as well. Anselmi will be presenting at the “Nuclear Innovation Bootcamp” at the University of Wyoming School of Energy Resources this summer. He feels we should also plan to make a standards-related presentation at the 2025 student conference in New Mexico.

A standards presentation is being held by the Young Member Group at the upcoming 2024 ANS Winter Meeting in Orlando. Gale Hauck feels that providing food would encourage students to attend standards presentations. Also, for students to care, it needs to be linked to work they are doing. Several ideas to get students involved in standards were suggested including the following:

- getting professors to give credit for students to engage
- a senior engineering group project
- a student competition with minimal work and a small reward
 - between student sections
 - to come up with more innovative titles for standards
 - for the most important standard
 - award could be participating as a non-voting observer on a working group of interest to them for a year
- pose a question requiring students to interact with a member

Leah Parks suggested, and others agreed, that the present focus should be on the upcoming Young Member Group standards panel and to use this panel as a launching pad to encourage more participation from young members.

Andrew Sowder suggested that consideration could be given to repurposing the External Communications Task Group for outreach to students and young members.

14. Member Feedback

A. Meeting Plus/Deltas

Plus/Positives

- coordinated coffee and lunch breaks
- more time for discussions and finishing on time
- no post meeting needed!

Deltas/Negatives

- poor audio for remote participants

B. Opportunity to Share Positive Feedback and Express Appreciation

Andrew Sowder expressed his appreciation to all for their work and help.

15. Review of Action Items from This Meeting

Action items were reviewed and confirmed.

16. Future Meetings

The SB is expected to meet on Tuesday of the following two ANS meetings:

- 2024 ANS Winter Meeting in Orlando, FL, at the Renaissance at SeaWorld, November 17–21, 2024
- 2025 ANS Annual Meeting in Chicago, IL, at the Chicago Marriott Downtown, June 15–18, 2025


17. Adjournment

The meeting was adjourned.

Standards Board Action Item Report from 6/18/24 Meeting

Action Item	Description	Responsibility	Status/Comments
6/2024-01	Standards Board to consider a certification program on standards development after the ANS certification program has been launched. DUE DATE: November 1, 2024	Members	OPEN
6/2024-02	Pat Schroeder to add an agenda item for the Policy Task Group to review the revised Strategic Plan at their next meeting. DUE DATE: September 1, 2024	Schroeder	OPEN
6/2024-03	Robert Budnitz and Don Spellman to clarify the terminology of "Standards Board" and "Standards Committee" and to find a prominent place to provide this clarification. DUE DATE: November 1, 2024	Budnitz Spellman	OPEN
6/2024-04	Todd Anselmi (lead), Larry Wetzel, Jef Lucchini, and Steven Krahn to serve as the 2025 Standards Service Award Selection Committee. DUE DATE: May 1, 2025	Anselmi Wetzel Lucchini Krahn	OPEN
6/2024-05	Andrew Sowder to follow up with the fusion professional division to convey work in C&S for fusion technology. DUE DATE: November 1, 2024	Sowder	OPEN
6/2024-06	Prasad Kadambi and Todd Anselmi to provide Oklo's request to the Environmental and Siting Committee and the ANS-2.26 Working Group to address Oklo's request. (NOTE: Based on the response from the ANS-2.26 Working Group, Don Eggett may suggest that the revision of ANS-2.26 be considered a candidate pilot for the NAARR Action 2. DUE DATE: November 1, 2024	Kadambi Anselmi	OPEN
6/2024-07	Pat Schroeder to confirm that the ANS-8.14 and ANS-8.17 Working Groups are in need of additional members and update the NCSCC's staffing needs report accordingly. DUE DATE: August 1, 2024	Schroeder	OPEN
6/2024-08	Pat Schroeder to reverse the order of consensus committee chair reports for the next meeting. DUE DATE: November 1, 2025	Schroeder	OPEN
6/2024-09	Sales Task Group to regroup in 2025 to discuss additional improvements to increase standards sales. (NOTE: Last report at June 2022 meeting; next report should be June 2025.) DUE DATE: June 1, 2025	Sales Task Group	OPEN
6/2024-10	Pat Schroeder to change the agenda item for task group reports to include ad hoc committee reports including the Artificial Intelligence Ad Hoc Committee. DUE DATE: November 1, 2024	Schroeder	OPEN
6/2024-11	Pat Schroeder to add an agenda item for the Policy Task Group to discuss the proposed reorganization at their next meeting. DUE DATE: September 1, 2024	Schroeder	OPEN
6/2024-12	Standards Board members to review the Glossary Ad Hoc Committee Report. DUE DATE: September 1, 2024	Members	OPEN
6/2024-13	Pat Schroeder to add an agenda item for the Policy Task Group to consider the Glossary Ad Hoc Committee's recommendations at their next meeting.	Schroeder	OPEN

	DUE DATE: September 1, 2024		
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 “International Convention on the Suppression of Acts of Nuclear Terrorism.” DUE DATE: August 1, 2024	Sowder	OPEN
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: August 1, 2024	Sowder	OPEN
5/2024-04	Leah Parks to check with the ANS meetings staff to see if the YMG panel session on standards could be collocated with the ANS-8 poster session. DUE DATE: August 1, 2024	L. Parks	OPEN
5/2024-05	Members to let Leah Parks (or Pat Schroeder know if they are interested in supporting the YMG standards panel session at the 2024 ANS Winter Meeting. DUE DATE: August 1, 2024	Members	OPEN Currently involved in helping w/panel include: Leah Parks, Gale Hauck, Brandon Chisholm, Ben Parks, Doug Bowen, Carl Mazzola, Ishita Trivedi, Matt Wargon
12/2023-01	Amir Afzali to work with Dennis Henneke and Robert Budnitz to develop a straw-man proposal on speaking for an ANS committee and a “disclaimer” be shared with the Policy Task Group. DUE DATE: November 1, 2024 (or as soon as possible)	Afzali, Henneke, Budnitz	OPEN
12/2023-04	Andrew Sowder to check with Dr. Pekka Pyy about ANS having a liaison role with NHSI’s Working Group 2. DUE DATE: November 1, 2024	Sowder	OPEN Email sent during June 2024 meeting.
11/2023-04	Policy Task Group to review the revised Standards Committee Strategic Plan before sending to the SB for approval ballot.	Policy Task Group	CLOSED ACTION ITEM 6/2024-02 opened for Schroeder to add this to the next PTG agenda for their review.
11/2023-06	Prasad Kadambi to communicate the recommendation for a standard to improve Part 50.69 with performance-based methods to LLWRCC and JCNRM. DUE DATE: November 1, 2024	Kadambi	OPEN
11/2023-08	Brandon Chisholm to work with Prasad Kadambi to frame the ask for help from associate members to create a video from training material and CoP presentations; Kathy Murdoch to create a site on ANS Collaborate for associate members to use for collaboration. DUE DATE: November 1, 2024	Chisholm, Kadambi	OPEN Discussed at RP3C meeting. Will be looking at revamping training materials.
11/2023-10	Jef Lucchini to recommend that the ANS-57.2 and ANS-57.9 working groups contact RP3C for support and report back to Prasad Kadambi. DUE DATE: November 1, 2024	Lucchini	OPEN Lucchini contacted the WGs before the 2023 winter meeting. They did not make enough progress on the revision of the standards at that time to report to

			RP3C which was communicated to Kadambi. The due date was changed to November 2024.
11/2023-12	Prasad Kadambi and Mark Joseph to discuss using RIPB methods in ANS-2.36, Accident Analysis for Aircraft Crash into Hazardous Facilities, offline. DUE DATE: September 1, 2024 (ongoing)	Kadambi, Joseph	OPEN ANS 2-36 WG is still working on the initial draft of the standard and will be in a better position to consider application of RIPB methods in September 2024.
11/2023-13	Larry Wetzel to provide the Glossary Review Team NCSCC's feedback on preferred ANS-8 terms. DUE DATE: December 31, 2024	Wetzel	OPEN Extend to end of 2024
11/2023-16	The SB to revisit the formation of the EAC in a year. DUE DATE: November 1, 2024	Standards Board	OPEN
11/2023(PM)-04	Todd Anselmi to revise the Standards Committee Strategic Plan and provide to the SB prior to the SB November 2024 meeting. DUE DATE: November 1, 2024	Anselmi	OPEN Will discuss with the Policy Task Group at their next meeting before providing to the SB.
6/2023-02	Todd Anselmi with support from Pat Schroeder to update SMART Matrix actions to recognize those that have been completed. DUE DATE: On hold until SC Plan is approved	Anselmi, Schroeder	On Hold The SMART Matrix will be reconfigured to reflect the revision to the SC Strategic Plan once completed.
6/2023-04	Pat Schroeder 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: November 1, 2025	Schroeder	OPEN IT support is needed to establish/build a platform. Fabian (ANS Pubs Director) is working with ANS IT. This is a long-term goal.
6/2023-06	Steven Krahn, Prasad Kadambi, and Michelle French to discuss what help is needed from RP3C for LLWRCC. DUE DATE: November 1, 2024	Kadambi, French	OPEN Krahn added to action item.
6/2023-14	Pat Schroeder to provide Andrew Sowder with all background information about ANSI's 2022 balance of interest category change.	Schroeder	CLOSED  ANSI Essential Requirements & Mis
6/2023-15	Don Eggett to follow up on organization's copyright infringing on ANS documentation. (Note: This is a follow up action to ACTION ITEM 6/2021-17.) DUE DATE: November 1, 2024	Eggett	OPEN Fabian has added this item to the list to be discussed with the ANS attorney. Preliminary thought from Fabian is that the copyright statement in ANS standard could be enhanced. Would want consistency with other ANS publications.
6/2023-16	Andrew Sowder to recruit liaisons from the Institute of Electrical and Electronics Engineers, Health Physics Society, and National Council on Radiation Protection and Measurements liaison for the SB. (NOTE: ACTION ITEM 11/2022-08 to recruit an IEEE liaison was incorporated.) DUE DATE: November 1, 2024	Sowder	OPEN An HPS liaison has been appointed. An invite has been issued to a potential IEEE liaison.

6/2023-17	Prasad Kadambi to follow up with Garrett Smith for details on DOE's use of ANSI/ANS-2.26-2004 (R2021), Categorization of Nuclear Facility Structures, Systems, and Components for Seismic Design. DUE DATE: November 1, 2024	Kadambi	OPEN
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