

Standards Board (SB)

June 13, 2023

Indianapolis, Indiana

Attended	Voting Member Name	Role	Company
X*	Amir Afzali	At-Large (2023)	Individual
X*	Robert Becse	At-Large (2025)	Westinghouse Electric Company LLC
X*	Jennifer Call	At-Large (2024)	Tennessee Valley Authority
X	Donald "Don" Eggett	Chair (2023) At-Large (2023)	Eggett Consulting LLC
X*	Michelle French	Ex-Officio	WECTEC
X	Gale Hauck	Ex-Officio	Oak Ridge National Laboratory
X*	Dennis Henneke	Ex-Officio	GE Hitachi
X*	Robert Kalantari	At-Large (2025)	Engineering Planning & Management, Inc.
X*	Mark Linn	At-Large (2023)	Individual
X	Jean-Francois "Jef" Lucchini	Ex-Officio	Los Alamos National Laboratory
X*	Charles "Chip" Martin	Ex-Officio	Longenecker and Associates
X*	Carl Mazzola (represented by Brent Gutiérrez/DOE)	At-Large (2023) Ex-Officio	Los Alamos National Laboratory
X	Mehdi Reisi-Fard	At-Large (2026)	U.S. Nuclear Regulatory Commission
X*	Andrew Smetana	Ex-Officio	Individual
X	Andrew Sowder	Vice Chair (2023) At-Large (2024)	Electric Power Research Institute
X*	Larry Wetzel	Ex-Officio	BWX Technologies, Inc.
16/16 Votes = 100% Participation			
Attended	Nonvoting Member Name	Role	Company
X	Jason Andrus	Guest	Idaho National Laboratory
X	Todd Anselmi	Guest	Idaho National Laboratory
X	Steven Arndt	ANS President	Oak Ridge National Laboratory
X*	James August	Guest	Individual
X*	Robert Budnitz	Observer	Lawrence Berkeley National Laboratory (retired)
X	Brandon Chisholm	Guest	Southern Company
X	Mihai Diaconeasa	Guest	North Carolina State University
X	Ron Ellis	Guest	Individual
X	John Fabian	Guest	ANS Staff
X*	George Flanagan	Observer	Individual
X*	Greg Hudson	Guest	Metcalfe PLLC
X	N. Prasad Kadambi	RP3C Chair/ANSI Liaison	Kadambi Engineering Consultants
X	Leah Parks	Guest	U.S. Nuclear Regulatory Commission
X*	Frances Pimentel	NEI Liaison	Nuclear Energy Institute
X	Trent Primm	Guest	Individual
X*	Tom Roberts	Guest	Pomo18 Consult LLC
X	Garrett Smith	Guest	U.S. Department of Energy
X	Donald Spellman	Observer	Individual

X*	Kent Welter	Guest	NuScale Power
X*	Andrew Whittaker	ASCE Liaison	University at Buffalo, SUNY
X	Robert Youngblood	Guest	Idaho National Laboratory

**Participated remotely.*

1. Welcome and Roll Call

SB Chair Don Eggett welcomed those participating in person and those joining the meeting remotely. Roll call was taken, and brief introductions were made. All 16 voting SB members joined the meeting for 100% participation.

A. Recognition of SB membership terms ending

- Amir Afzali (current SB member term ends, remains on as a SB observer)
- Don Eggett (current SB Chair, remains on as a SB observer)
- Mark Linn (current SB member, remains on as a SB observer)
- Carl Mazzola (current SB member term ends, remains on as an ex-officio member)

B. Recognition of SB membership terms beginning

- Todd Anselmi
- Robert Budnitz
- Brandon Chisholm
- Frankie Pimentel
- Kent Welter

C. Announcement of new SB leadership

Eggett announced Andrew Sowder as the incoming SB Chair and Todd Anselmi as the incoming SB Vice Chair.

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. Report to the Board of Directors



3A_SB

Chair_2023_Annual_

Don Eggett reviewed the report he submitted to the ANS Board of Directors. The report is [embedded](#) above for your reference. Eggett highlighted a few points including the formation of the Advanced Reactor Codes & Standards Collaborative (ARCSC), an update of the 2021-2026 Standards Committee Strategic Plan, the use of trial-use standards, recent presentations, newly published standards, etc.

B. Report from ANS President's Special Session

The ANS President's Special Session was held last Sunday morning providing an update of Society activities. Of significance is the certification program being established. Two different types of certifications are being considered--a technical certification and several "101-type" certifications. Trustees of Nuclear is a new program recently initiated. Presentations from the President's Special Session are [embedded](#) below to provide more details.



3B_Recap 2023



3B_Piercy Annual



3B_Arndt Meeting

Annual Meeting NatMeeting 2023 - Comwith Division and Cc

C. Update on formation of an Executive Advisory Committee (EAC) (Action Item 9/2022-02)

A draft charter was issued for ballot and closed 6/8/23 ([Link to Ballot](#)). The Charter was approved unanimously with minimal comments received. Eggett provided some history on the initiative and reasons behind the formation of an EAC. An invite letter to earmarked members has been drafted and will be issued shortly with the charter as an attachment.

D. General Comments on Various SB Initiatives

The SB previously directed ANS-GS-30.1, *Integrating Risk and Performance Objectives into New Reactor Nuclear Safety Designs*, be converted to a guidance standard. The document has been converted. A request is being honored to allow further discussion with Dennis Henneke, one of the objectors, before reissuing the draft for ballot. Agenda item 10A on ANS-30.1 will be tabled and a virtual meeting will be scheduled later to include Dennis Henneke, working group members, and SB and RARCC leadership.

ACTION ITEM 6/2023-01: Pat Schroeder to schedule a virtual meeting on ANS-GS-30.1, *Integrating Risk and Performance Objectives into New Reactor Nuclear Safety Designs*, with SB and RARCC leadership, ANS-30.1 Working Group members, and Dennis Henneke.
DUE DATE: August 1, 2023

4. SB Vice Chair Report

A. SMART Matrix Goals & Objectives



4A_SMART_MATRIX 4A_2023 June 13 -
_Update_2-20-23.xls SB Vice-Chair report

- [Review ballot](#) closed 5/1/23 with no comments
Standards Board members were provided a formal opportunity via ballot to comment on the updated SMART Matrix. The ballot closed without comment.
- Progress on actions
Key actions on the SMART Matrix were reviewed. A need to update the SMART Matrix to reflect completion of several actions was recognized. The maintenance of the SMART Matrix transfers from Andrew Sowder to Todd Anselmi as the new SB Vice Chair.

ACTION ITEM 6/2023-02: Todd Anselmi with support from Pat Schroeder to update SMART Matrix actions to recognize those that have been completed.
DUE DATE: August 1, 2023

B. Standards Service Award

- Announcement of Selection Committee Recommendation
Andrew Sowder announced Jef Lucchini as the 2023 Standards Service Award recipient.
- Standards Board Confirmation
Jef Lucchini was confirmed as the 2023 Standards Service Award recipient via e-ballot prior to the meeting.

- Appointment of 2024 Selection Committee Members
Anselmi will lead next year's selection committee as the SB Vice Chair. Larry Wetzel, Jef Lucchini, Gale Hauck, and Dennis Henneke will support Anselmi as selection committee members.

ACTION ITEM 6/2023-03: Todd Anselmi to lead the 2024 Standards Service Award Selection Committee along with Larry Wetzel, Jef Lucchini, Gale Hauck, and Dennis Henneke.

DUE DATE: May 1, 2024

See Andrew Sowder's vice chair report [embedded](#) above for more details.

5. Secretary Reports (update on staff activities)



5_Sec-Staff_Report.
docx

See the [embedded file](#) for the full staff report including sales and volunteer information. Mihai Diaconeasa asked the question whether ANS has a program to provide access for university students to standards. The SB has engaged students in standards activities with presentations at student conferences and in encouraging young professionals and students to join the Associate Member Program, but no formal program exists that provides standards to students. With no objections voiced by the SB, Pat Schroeder will work with John Fabian to evaluate options for a formal program to provide access of standards to university students.

ACTION ITEM 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, 2023

6. Glossary Review Team Feedback

Mark Linn reported on behalf of the Glossary Review Team on the recent update of the Standards Committee Glossary of Terms and Definitions. Many of the definitions in the Glossary were found to be specific only to the source standard while other definitions were so generic, Webster's Dictionary could have been used. The review team found difficulties selecting a preferred term when definitions were specific to the source standard. James August was also on the review team. His takeaway is that some definitions make little sense out of the context of the standard where the idea is presented. The review team feels that in many cases it is not beneficial for one term to be selected for all ANS standards, although it may be useful to select a preferred term/definition for a specific technical area of ANS standards such as nuclear criticality safety, probabilistic risk assessment, or reactor physics. Pat Schroeder added that the word "glossary" in the title is misleading because the document is an archive or collection of terms and definitions used in approved ANS standards.

The Glossary was started by a pre-dating subcommittee decades ago. This subcommittee was superseded by the Nuclear Facilities Standards Committee (historical consensus committee) which was split into several new consensus committees in 2013. At that time, the Glossary was taken over by the SB with terms and definitions from all ANS standards added.

Several members would like to see an ANS Standards Glossary with only one definition for all terms. Linn would recommend a task group be formed to look at the Glossary and make a decision on future updates.

ACTION ITEM 6/2023-05: Mark Linn (lead), Brandon Chisholm, Medhi Reisi-Fard, Donald Spellman, and Robert Kalantari, to form an ad hoc committee to evaluate how to improve the Standards Committee Glossary of Terms and Definitions which should include consideration of a new glossary with one standardize term/definition. James August and Garrett Smith to be invited as guests.
DUE DATE: November 1, 2023

7. Consensus Committee (CC) Chair Reports

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



7-CCC_Combined_Reports.pdf

Don Eggett explained that consensus committee (CC) reports were moved up in the schedule to make sure that CC chairs get the opportunity to bring issues forward to the full membership.

A. Environmental and Siting Consensus Committee (ESCC)

Brent Gutierrez reported on behalf of ESCC Chair Carl Mazzola. Leadership changes were recognized. Gutierrez believes that ESCC has a fair interaction with industry groups and other standards development organizations (SDOs) relative to ESCC standards. The report is combined with other CC reports and [embedded above](#).

B. Fuel, Waste, and Decommissioning Consensus Committee (FWDCC)

FWDCC Chair Jef Lucchini summarized his chair report and highlighted new members. Several new members were recognized. He is working to fill the positions of chair and vice chair of the Decommissioning Subcommittee. The report is combined with other CC reports and [embedded above](#).

C. Joint Committee on Nuclear Risk Management (JCNRM)

JCNRM Chair Dennis Henneke recognized progress on key standards. Of significance is the Level 1 PRA standard which was issued last year and the standard for non-light water reactors issued in 2021 which has been endorsed in trial-use RG 1.247, *Acceptability of Probabilistic Risk Assessment Results for Advanced Non-Light Water Reactor Risk-Informed Activities*. A limited revision of the Level 1 PRA standard will go to ballot in the next month. The Level 2 standard is expected to receive ANSI approval soon and be published by the end of the year.

ASME will see new leadership on the JCNRM. Ray Fine will take over as the ASME co-chair; Gerry Kindred will take over as the ASME co-vice chair. The JCNRM report is combined with other CC reports and [embedded above](#).

D. Large Light Water Reactor Consensus Committee (LLWRCC)

Michelle French, LLWRCC Chair, reviewed her chair report. She reported that two subcommittees have been merged as a result of Mark Linn's proposal to modernize the LLWRCC and capitalize on synergies with the Research and Advanced Reactor Consensus Committee (RARCC). New members and membership changes were recognized. Several LLWRCC standards in development have plans to incorporate risk-informed, performance-based (RIPB) methods. Risk-informed, Performance-based Principles and Policy Committee (RP3C) Chair Prasad Kadambi asked for French to check with the LLWRCC and its working groups to find out how RP3C can be more helpful. The LLWRCC report is combined with other CC reports and [embedded above](#).

ACTION ITEM 6/2023-06: Prasad Kadambi and Michelle French to discuss what help is needed from RP3C for LLWRCC.

DUE DATE: September 1, 2023

E. Nonreactor Nuclear Facilities Consensus Committee (NRNFCC)

NRNFCC Chair Chip Martin updated the committee on NRNFCC activities. He recognized that there may be overlap with proposed standard ANS-3.6, *Requirements for Preoperational and Startup Testing*, currently in consideration, and ANS-19.13, *Initial Fuel Loading and Startup Tests for FOAK Advanced Reactors*, currently in development. The revision of ANSI/ANS-58.16-2014 (R2020), *Safety Categorization and Design Criteria for Nonreactor Nuclear Facilities*, is on hold until changes currently in progress on the revision of ANSI/ANS-2.26-2004 (R2021), *Categorization of Nuclear Facility Structures, Systems, and Components for Seismic Design*, are known. Of significance to report is funding from the U.S. Department of Energy (DOE) to process Federal Aviation Administration transponder data to support site-specific information on aircraft density information. This data will be used in ANS-2.36, *Accident Analysis for Aircraft Crash into Hazardous Facilities*.

Work on incorporating comments in ANS-57.11-202x, *Integrated Safety Assessments for Nonreactor Nuclear Facilities*, continues. Martin noted that DOE is looking to use ANS-57.11 as a pilot when completed. Garrett Smith added that DOE can use ANS-57.11 as an alternative method, but he is unsure whether the U.S. Nuclear Regulatory Commission (NRC) would be able to use the standard because NRC uses 10 CFR Part 70. The revised draft of ANS-57.11 will start back at square one with review by the Subcommittee on Risk Application (SCoRA), RP3C, and the non-developing consensus committee (NDCC). Martin's term as NRNFCC Chair is up September 11, 2023, and he is looking for a replacement. The NRNFCC report is combined with other CC reports and [embedded above](#) for full details.

F. Nuclear Criticality Safety Consensus Committee (NCSCC)

NCSCC Chair Larry Wetzel addressed the committee. He provided a brief highlight on NCSCC activities including the recent approval of three standards and numerous projects in development and at ballot. Wetzel and Randy Shackelford have been re-elected as chair and vice chair, respectively. Wetzel announced that he will be retiring from BWX Technologies in about a month. The NCSCC report is combined with other CC reports and [embedded above](#) for full details.

G. Research and Advanced Reactors Consensus Committee (RARCC)

Gale Hauck recently took over as RARCC Chair. She invited past RARCC Chair George Flanagan to provide the report for RARCC. Flanagan highlighted several RARCC projects including active projects ANS-20.2, *Nuclear Safety Design Criteria and Functional Performance Requirements for Liquid-Fuel Molten-Salt Reactor Nuclear Power Plants*, and ANS-GS-30.1, *Integrating Risk and Performance Objectives into New Reactor Nuclear Safety Designs*. The addition of several new members on the RARCC and Jason Andrus as the new RARCC Vice Chair were recognized. The RARCC report is combined with other CC reports and [embedded above](#).

H. Safety and Radiological Analyses Consensus Committee (SRACC)

SRACC Chair Andy Smetana recognized membership changes including his re-election as chair and the re-election of Julie Jarvis as vice chair. New standard ANS-19.13, *Initial Fuel Loading and Startup Tests for FOAK Advanced Reactors*, is in development and making excellent progress. ANS-19.13 Working Group members do not understand where they would get the quantitative basis for accessing risk. They are open to using RIPB methods but not sure how to do so. Robert Youngblood and ANS-19.13 Working Group Co-Chair Samuel Bays are both with the Idaho National Laboratory. Youngblood will connect offline with Bays to offer guidance on incorporating RIPB methods in ANS-19.13. Youngblood will let Pat Schroeder know if help is needed to facilitate a group meeting.

ACTION ITEM 6/2023-07: Pat Schroeder to facilitate a group discussion on incorporating RIPB methods in ANS-19.13, *Initial Fuel Loading and Startup Tests for FOAK Advanced Reactors*, if offline discussion between Robert Youngblood and ANS-19.13 Working Group Chair Samuel Bays needs additional discussion. Individuals to be included in the group meeting if needed are Andrew Smetana, Robert Budnitz, and Chip Martin.

DUE DATE: September 1, 2023

In closing of the consensus committee reports, Eggett stressed that working groups should encourage the use of trial-use standards when applicable.

8. Standards Board/Standards Committee Accomplishments 2020-2023

A. Standards Committee Strategic Plan Revision Update

Don Eggett explained that there is a need to revise and redirect the Standards Committee Strategic Plan. Eggett and Andrew Sowder have developed a revision of the Standards Committee Strategic Plan which was reviewed briefly during the meeting. The revised Standards Committee Strategic Plan will be sent out to SB members for approval. A copy of the revised Standards Committee Strategic Plan as discussed is [embedded](#) below for reference.



8A_SC_StrategicPlan-2021-2026_Rev1_C

ACTION ITEM 6/2023-08: Pat Schroeder to send the revised Standards Committee Strategic Plan out to the SB for approval.

DUE DATE: July 1, 2023

B. Formation of Advanced Reactor Codes & Standards Collaborative (ARCSC) (SDO-Led Initiative)

Eggett provided members with an update on the formation of the ARCSC. The ARCSC is an offshoot of the proposed joint U.S. Nuclear Standards Advisory Committee (NSAC) discussed in 2021. The Collaborative was introduced at the December 1, 2022, workshop sponsored by the Nuclear Energy Institute (NEI) and the Electric Power Research Institute (EPRI). A lot has been done over the last few months. The core group or “Team” held a two-day meeting last March to work on the charter and a codes and standards process document. Subsequent meetings have been held with a recent meeting held last week. Moving forward, the group will be meeting bi-weekly starting June 21. The charter is currently going through the process of formal approval by current steering committee members. In addition to ANS, standards developers currently engaged include the American Society of Mechanical Engineers, American Society of Civil Engineers, American Concrete Institute, Canadian Standards Group, and Institute of Electrical and Electronics Engineers (IEEE). An invitation letter to bring on additional steering committee members has been drafted. Others, including designers, will be engaged and funding will be sought. The ARCSC will be scheduling another public workshop targeted for late summer 2023. The first and near-term task led by the SDOs will be to initiate a standards “gap assessment” to determine those advanced reactor standards needed to support the developers designs. Designers’ participation is critical to the gap assessment success.

Andrew Sowder explained that the ARCSC supports the North American Advanced Reactor Roadmap (NAARR). The NAARR now has only three pillars. There is alignment between the NAARR and the ARCSC. Sowder sees NEI and EPRI as the sherpas or facilitators of the priorities identified in the NAARR. ANS was the initiator of the concept for the Collaborative two years ago. This concept morphed into the ARCSC with the help of NEI and EPRI. A survey described above that will engage advanced reactor industry stakeholders including the designers will be issued shortly. Eggett will remain engaged on the ARCSC moving forward along with support to the NAARR to maintain continuity and leadership currently provided.

Prasad Kadambi recognized collaboration on a revision of IEEE 1819, *Standard for Risk-Informed Categorization and Treatment of Electrical and Electronic Equipment at Nuclear Power Generating Stations and Other Nuclear Facilities*. The request for ANS Standards Committee members to help IEEE with this standard came from ANS President Steven Arndt. Over 10 Standards Committee members expressed interest. Kadambi is one that will be helping IEEE as a representative of the RP3C.

ACTION ITEM 6/2023-09: Pat Schroeder to check with IEEE to see who from ANS was accepted to support the revision of IEEE-1819, *Standard for Risk-Informed Categorization and Treatment of Electrical and Electronic Equipment at Nuclear Power Generating Stations and Other Nuclear Facilities*.

DUE DATE: September 1, 2023

C. Other Accomplishments

Eggett recognized the following accomplishments and thanked everyone for their contributions to the success and progress made over the last three years during his term:

- Seven (7) industry presentations
- Instituted interim Standards Board meetings between the Annual and Winter meetings
- Instituted quarterly consensus committee chair meetings
- Multiple meetings with other SDOs, NEI, EPRI, NRC, and DOE
- No delinquent standards since 2020
- Successful 2020 ANSI Audit
- Policy Manual for ANS Standards Committee updated on June 16, 2022
- ANSI approval of revised Standards Committee Rules and Procedures and reaccreditation on 8/19/22
- 16 new and revised standards published
- 41 current standards reaffirmed
- 9 standards initiated
- approved the development of three new standards-related products including guidance standards, guidance documents, and technical reports
- customized ANS Collaborate to use as a volunteer database by adding standards volunteer capability categories to the profile section

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

RP3C Chair Prasad Kadambi provided a report on yesterday's RP3C meeting. RP3C is considering the need for a revision to their Bylaws. RP3C recognizes a misfit between the work of the RP3C reported to the SB and the Bylaws. The question came up whether the ANS Bylaws and Rules Committee (BRC) has a role in the formulation of the RP3C Bylaws. Members believe that Standards Committee rules, policies, and procedures are the responsibility of the SB, but Eggett will follow up.

Kadambi reported that the sentiment of the majority of RP3C members was that the RP3C Bylaws were overly formal. Presently, the RP3C review of RIPB standards is conducted in parallel to the NDCC review. Kadambi questioned whether the parallel review is beneficial and plans to evaluate the process as part of the update to the RP3C Bylaws. Once there is confirmation whether the BRC needs to review Standards Committee procedures, Kadambi would like to know what the simplest pathway for instituting new RP3C Bylaws would be.

ACTION 6/2023-10: Don Eggett to follow up on the need for the ANS Bylaws and Rules Committee to approve rules, policies, and procedures developed by the SB for standards committees and then let Prasad Kadambi know what the simplest path is for the revision of the RP3C Bylaws.

DUE DATE: September 1, 2023

A couple of live training sessions on the [Guidance Document \(GD\)](#) have been held. The sessions have been recorded and are available for working groups. Feedback from participants in the GD training has been positive, but it wasn't very helpful in evaluating the usefulness of the training. A suggestion was made for Kadambi to be invited to a quarterly CC chair meeting and include an agenda item for CC chairs to provide more feedback from their working groups on the use of the GD and incorporation of RIPB methods.

ACTION ITEM 6/2023-11: Pat Schroeder to include Prasad Kadambi in the next quarterly CC chair meeting and add an agenda item for CC chairs to provide feedback on their working groups' use of the GD and incorporating RIPB methods.

DUE DATE: September 1, 2023

There is a need to publicize RP3C accomplishments including Community of Practice presentations as a knowledge database. Kadambi asked ANS representatives to take the initiative to spread the word.

The list of ANS standards in development using RIPB methods is embedded below for reference.



9_Proposed
Schedule for ANS RI

In addition to holding the position of RP3C Chair, Kadambi is also the chair of the ANS Advanced Reactor Working Group (ARWG). The ARWG was formed within the Operations and Power Division by Steven Nesbit when he was ANS President. Some RP3C members are also members of the ARWG. The current SB Chair is an ex officio member of the ARWG. Andrew Sowder will become an ex officio member as the incoming SB Chair. Don Eggett would like to remain engaged with the ARWG to maintain continuity between the advanced reactor industry activities and the ARWG.

10. Current and Emergent Issues

- A. Update on ANS-GS-30.1, *Integrating Risk and Performance Objectives into New Reactor Nuclear Safety Designs*
As noted above in 3D, this discussion was tabled.
- B. Proposed Change to Professional Division/Standards Committee Liaison Program
Robert Becse explained that the Professional Division/Standards Committee Liaison Program has struggled since inception due to difficulty getting liaisons to engage. A decision was made with support of the SB leadership and the Professional Divisions Committee (PDC) Chair to use a brief, informative newsletter as the vehicle of communication. The newsletter will be prepared twice a year and will be presented to the PDC at one of their meetings. A template has been developed with the understanding that we will reassess how the newsletter is received in a year or so and make changes as necessary.

ACTION ITEM 6/2023-12: Pat Schroeder to send SB members the draft PDC newsletter and check with the PDC chair on when to make a presentation.

DUE DATE: September 1, 2023

- C. Balance of Interest (BOI) Compliance with 2022 Definitions
Dennis Henneke summarized the challenge JCNRM has in complying with the new BOI interest categories. The challenge is a result of ANSI's direction to remove the "Consultant" category and classify these individuals that provide consulting services in the category of the majority of their clients. The change has lessened the amount of members classified as "Individuals" as many of these

members are now classified as “Owners.” However, the result is that the “Owners” category has too many members. JCNRM is making progress in recruiting individuals from underrepresented categories to improve their BOI. Tom Roberts explained that ASME’s Boiler Pressure Vessel Committee is struggling with a similar issue, but noted that ASME’s “Owners” category is less inclusive and may be an option for ANS.

Donald Spellman will check with IEEE to see how they handle BOI classification of consultants. Schroeder will provide Andrew Sowder background information on ANSI’s 2022 change for his review.

ACTION ITEM 6/2023-13: Donald Spellman to reach out to IEEE about how they handle BOI classification of consultants.

DUE DATE: September 1, 2023

ACTION ITEM 6/2023-14: Pat Schroeder to provide Andrew Sowder with all background information about ANSI’s 2022 balance of interest category change.

DUE DATE: July 1, 2023

11. Review of Open Action Items Report

A. Report on Open Action Items

Open action items were reviewed. The action item status report can be found following these minutes. The following action items were assigned during the discussion:

ACTION ITEM 6/2023-15: Don Eggett to follow up on organization’s copyright infringing on ANS documentation. (Note: This is related to ACTION ITEM 6/2021-17.)

ACTION ITEM 6/2023-16: Andrew Sowder to recruit liaisons from the Institute of Electrical and Electronics Engineers (IEEE), 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, 2023

B. Concurrence to Close Report of Completed Action Items

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 below in the [embedded report](#).



11B_SB COMPLETED
Action Item Report f

12. Other Committee Reports



12_TG_Scopes&Members.pdf

A. Standards Board Task Group (TG) Reports

- Policy Task Group Report
No report provided due to time.
- External Communications Task Group Report
This task group is not currently active.
- Internal Communications Task Group Report
The change to the Professional Division Liaison Program was addressed under 10B.
- Priority Task Group Report
This task group is not currently active.
- Sales Task Group Report
The Sales Task Group will revisit sales information in two years.

B. Liaison reports (External Liaisons to the Standards Board)

- U.S. Nuclear Regulatory Commission (NRC): Medhi Reisi-Fard
Medhi Reisi-Fard presented the [embedded](#) report on behalf of NRC.



12B_NRC Rep Input
to ANS SB June 2023

A few noteworthy points are provided below:

- Michelle Sampson is the new NRC Standards Executive due to the retirement of Louise Lund. An example of the importance of communication is ANSI/ANS-30.3-2022, *Light Water Reactor Risk-Informed, Performance-Based Design*. NRC has a path forward on ANS's request to endorse ANSI/ANS-30.3-2022. A letter with NRC's view is going through concurrence.
 - At a minimum, NRC will monitor the ARCSC.
 - The NRC Standards Forum is scheduled on September 13, 2023.
 - NRC has scheduled a risk forum on September 12 to provide more consistency and clarity on risk methods. The risk forum is not connected to the NRC Standards Forum, but there will be some overlap with standards.
- U.S. Department of Energy (DOE): Garrett Smith
Garrett Smith presented the [embedded](#) report on behalf of DOE. The report is a list of DOE activities.



12B_DOE Liaison
Report to ANS 0602:

A few noteworthy points are provided below:

- DOE has a standard on airplane crashes related to ANS-2.36, *Accident Analysis for Aircraft Crash into Reactor and Nonreactor Nuclear Facilities*, currently in development.

- They are very interested in ANS-57.11, *Integrated Safety Assessments for Nonreactor Nuclear Facilities*, to use as an alternative activity.
- Smith is currently a member of ASME's Board on Nuclear Codes and Standards.
- DOE is updating their nuclear facility safety requirements.
- They are engaging with NASA.

Prasad Kadambi questioned how ANSI/ANS-2.26-2004 (R2021), *Categorization of Nuclear Facility Structures, Systems, and Components for Seismic Design*, is being used by DOE. Smith believes that there are things in ANSI/ANS-2.26-2004 (R2021) that DOE can't live with, so they don't use the entire standard. Smith will check and follow up with Kadambi to provide more specifics.

ACTION ITEM 6/2023-17: Prasad Kadambi to follow up with Garret 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*.

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- NEI: Frances Pimentel
Frances Pimentel provided the [embedded](#) report.



12B_NEI Report to
ANS Standards Boar

- INPO: Raymond George
Raymond George provided the [embedded](#) report.



12B_INPO_Liaison_R
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- ACI: Open
No report provided.
- ANSI: Prasad Kadambi
No report provided due to time.
- ASCE: Andrew Whittaker, ASCE Chair
Andrew Whittaker provided the [embedded](#) report.



12B_ASCE_Liaison_R
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- ASME/NQA-1: Chip Martin
Chip Martin presented the [embedded](#) report.



12B_ASME_NQA_Liai
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- EPRI: Andrew Sowder

Andrew Sowder [presented](#) the embedded report.



12B_2023 June 13 -
EPRI liaison report c

- HPS: Ali Simpkins (for the Shielding Subcommittee/ANS-6)

Ali Simpkins provided the [embedded](#) report.



12B_N13 for ANS
Standards Simpkins

- IEEE/NPEC: Open
No report was provided.
- ISO/TC 85/SC-6/NTAG: Donald Spellman
Donald Spellman provided the [embedded](#) report.



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Liaison Report.docx

- NCRP: Open
No report provided.
- NFPA: Open
No report provided.

13. Other/New Business

- A. Harmonization of SSCs (Spellman)
Due to limited time, this item was not discussed.



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- B. Requirements Definition and Use of “SHALL” (Eggett)
Due to limited time, this item was not discussed.

- C. Other New Business (All)

ANS President Steven Arndt stopped into the meeting to thank members for their important work. Standards is the largest group in the Society in terms of the hours that are contributed. Arndt said that he and incoming ANS President Kenneth Petersen see standards as a priority. Arndt plans to stay involved in standards once he steps down from his role as ANS President. As before, he reiterated the need for relevant standards developed in a timely manner and collaboration with fellow standards developers when appropriate. Arndt confirmed that the ANS Board of Directors supports harmonization with international standards.

14. Review of Action Items from This Meeting

Due to limited time, action items assigned during the meeting were not reviewed.

15. Member Feedback

Due to limited time, this item was not discussed.

- A. Opportunity to Share Positive Feedback and Express Appreciation
- B. Meeting Plus/Deltas

16. Future Meetings

- ANS Winter Meeting in Washington, D.C., at the Washington Hilton from November 12-15, 2023
- ANS Annual Meeting in Las Vegas, Nevada, at the Mirage from June 9-12, 2024

17. Adjournment



The meeting was adjourned.

Standards Board Action Item Status Report – from 6/13/23 Meeting

Action Item	Description	Responsibility	Status/Comments
6/2023-01	Pat Schroeder to schedule a virtual meeting on ANS-GS-30.1, <i>Integrating Risk and Performance Objectives into New Reactor Nuclear Safety Designs</i> , with SB and RARCC leadership, ANS-GS-30.1 Working Group members, and Dennis Henneke. DUE DATE: August 1, 2023	Schroeder	OPEN
6/2023-02	Todd Anselmi with support from Pat Schroeder to update SMART Matrix actions to recognize those that have been completed. DUE DATE: August 1, 2023	Anselmi, Schroeder	OPEN
6/2023-03	Todd Anselmi to lead the 2024 Standards Service Award Selection Committee along with Larry Wetzel, Jef Lucchini, Gale Hauck, and Dennis Henneke. DUE DATE: May 1, 2024	Anselmi, Hauck, Henneke, Lucchini, Wetzel	OPEN
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, 2023	Schroeder	OPEN
6/2023-05	Mark Linn (lead), James August, Brandon Chisholm, Medhi Reisi-Fard, Donald Spellman, and Robert Kalantari, to form an ad hoc committee to evaluate how to improve the Standards Committee Glossary of Terms and Definitions which should include consideration of a new glossary with one standardize term/definition. Jim August and Garrett Smith to be invited as guests. DUE DATE: November 1, 2023	Linn, August, Chisholm, Kalantari Reisi-Fard, Spellman (Guests: August & Smith)	OPEN
6/2023-06	Prasad Kadambi and Michelle French to discuss what help is needed from RP3C for LLWRCC. DUE DATE: September 1, 2023	Kadambi, French	OPEN
6/2023-07	Pat Schroeder to facilitate a group discussion on incorporating RIPB methods in ANS-19.13, <i>Initial Fuel Loading and Startup Tests for FOAK Advanced Reactors</i> , if offline discussion between Robert Youngblood and ANS-19.13 Working Group Chair Sam Bays needs additional discussion. Individuals to be included in the group meeting if needed are Andrew Smetana, Robert Budnitz, and Chip Martin. DUE DATE: September 1, 2023	Schroeder	OPEN
6/2023-08	Pat Schroeder to send the revised Standards Committee Strategic Plan out to the SB for approval. DUE DATE: July 1, 2023	Schroeder	OPEN
6/2023-09	Pat Schroeder to check with IEEE to see who from ANS was accepted to support the revision of IEEE-1819, Standard for Risk-Informed Categorization and Treatment of Electrical and Electronic Equipment at Nuclear Power Generating Stations and Other Nuclear Facilities. DUE DATE: September 1, 2023	Schroeder	OPEN

6/2023-10	Don Eggett to follow up on the need for the ANS Bylaws and Rules Committee to approve rules, policies, and procedures developed by the SB for standards committees and then let Prasad Kadambi know what the simplest path is for the revision of the RP3C Bylaws. DUE DATE: September 1, 2023	Eggett	OPEN
6/2023-11	Pat Schroeder to include Prasad Kadambi in the next quarterly CC chair meetings and add an agenda item for CC chairs to provide feedback on their working groups' use of the GD and incorporating RIPB methods. DUE DATE: September 1, 2023	Schroeder	OPEN
6/2023-12	Pat Schroeder to send SB members the draft PDC newsletter and check with the PDC chair on when to make a presentation. DUE DATE: September 1, 2023	Schroeder	OPEN
6/2023-13	Donald Spellman to reach out to IEEE about how they handle BOI classification of consultants.	Spellman	OPEN
6/2023-14	Pat Schroeder to provide Andrew Sowder with all background information about ANSI's 2022 balance of interest category change. DUE DATE: July 1, 2023	Schroeder	OPEN
6/2023-15	Don Eggett to follow up on organizations infringing on ANS documentation. (Note: this related to ACTION ITEM 6/2021-17.)	Eggett	OPEN
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, 2023	Sowder	OPEN
6/2023-17	Prasad Kadambi to follow up with Garret 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.	Kadambi	OPEN
2/2023-01	Don Eggett to follow up with Peter Hastings to brainstorm ways for SDOs and developers to collaborate.	Eggett	CLOSED
2/2023-02	Andrew Sowder to review the EAC draft charter and provide comments to Don Eggett.	Sowder	CLOSED EAC charter issued to SB for approval. (link to ballot)
2/2023-03	Pat Schroeder to provide consensus committee chairs the draft North American Advanced Reactor Roadmap for review and comment with a deadline of March 6, 2023, a few days before the comment due date to NEI/EPRI.	Schroeder CC Chairs	CLOSED
2/2023-04	Pat Schroeder to issue the SMART Matrix to the full Standards Board for their feedback with a due date of May 1, 2023.	Schroeder SB members	CLOSED Ballot issue (link to ballot) No comments submitted.
11/2022-01	Andrew Sowder to lead a revision of the SMART Matrix with Chip Martin, Prasad Kadambi, and Jim August. (NOTE: Pat Schroeder to set up a poll to facilitate a meeting in December.)	Sowder, Eggett, Schroeder	CLOSED The ad hoc committee met 3 times.
11/2022-02	Prasad Kadambi to provide the SB an update on the guidance document training activities at the February 2023 interim SB meeting.	Kadambi	CLOSED
11/2022-03	Prasad Kadambi and future appointed ad hoc committee members to evaluate the need for a revision	Kadambi	OPEN Robert Youngblood has been

	of the RP3C Bylaws to reflect current practice. DUE DATE: No deadline set.		assigned this task as RP3C VC.
11/2022-04	Pat Schroeder to issue a poll to RP3C members to determine if they would like to remain on the committee as a voting member, remain on the committee as an observer, or be released from the RP3C. Those that do not respond will be removed from RP3C's roster with the exception of consensus committee and working group chairs with active projects who would be changed to non-voting observers.	Schroeder	CLOSED The poll was issued and membership categories were revised based on responses. Changes made to RP3C's membership resulted in 21 voting members and 43 non-voting observers.
11/2022-05	Mark Linn with Jim August to give the synergies of the LLWRCC and RARCC and rebranding proposal more thought and report back to the SB at the June 2023 meeting. DUE DATE: November 1, 2023	Linn	OPEN The LLWRCC held a meeting to discuss this topic on 5/3/23. The discussion was not completed. A second meeting is scheduled on 8/9/23. The report should be re-scheduled for the November 2023 meeting.
11/2022-06	Pat Schroeder to notify consensus committee members of chair and vice chair opportunities for committees with leadership terms ending February 2023.	Schroeder	CLOSED
11/2022-07	Don Eggett, Andrew Sowder, and Mark Linn to discuss Dennis Henneke's unaddressed comments on ANS-GS-30.1, Integrating Risk and Performance Objectives into New Reactor Nuclear Safety Designs. (NOTE: Pat Schroeder to facilitate the discussion.)	Eggett, Sowder, Linn, Schroeder	CLOSED Comment responses and revised draft issued to commenters 3/16/23.
11/2022-08	Andrew Sowder to reach out to the Institute of Electrical and Electronics Engineers (IEEE) for an interface or liaison.	Sowder	CLOSED This action was incorporated into ACTION ITEM 6/2023-16.
11/2022-09	Andrew Sowder to include an assignment in the SMART Matrix for SMART Matrix assignees to let Don Eggett and Andrew Sowder know how many new members they need to complete assigned actions. The follow up action is then for Don Eggett and Sowder to assign SB members and observers as needed.	Sowder, Eggett	CLOSED Note incorporated into the updated SMART Matrix.
11/2022-10	Larry Wetzel to keep Don Eggett informed of progress on standardizing ANS-8 terminology. DUE DATE: November 1, 2023	Wetzel	OPEN
11/2022-11	Pat Schroeder to update the status report of the top 20 standards from the 2015 priority survey to recognize that no interest was found in ANS-58.15, Criteria for Severe Accidents.	Schroeder	CLOSED
11/2022-12	Robert Budnitz to bring Fernando Ferrante's concern on broadening the JCNRM's charter to include guidance documents to the JCNRM Executive Committee to address with Ferrante.	Budnitz	CLOSED
11/2022-13	Pat Schroeder to issue a poll for the two weeks prior to the JCNRM meeting to determine a date for the SB to hold an interim meeting in February 2023. DUE DATE: December 1, 2022	Schroeder	CLOSED Interim meeting held 2/20/23.
9/2022-02	Don Eggett, Robert Kalantari, and Donald Spellman to develop a proposal for a limited trial for the EAC concept to be used as solicitation material.	Eggett, Kalantari Spellman	CLOSED EAC charter issued to SB for approval. (link to ballot). Invitation letters pending.
9/2022-05	Robert Becse and Raymond George to work with John Mahoney on standards input to the new nuclear professional certification program. DUE DATE: June 1, 2023	Becse, George, Mahoney	In progress Meeting held 10/4/22. The BOD is working on the certification program. ANS has selected a

			<p>contractor and is working with Professional Divisions and others on feedback for the program. Robert Becse is engaged in these discussions.</p>   <p>10182022_ANS Prof Cert Progm_Decisior</p> <p>ANS Committee.docx</p>
6/2022-02	Andrew Sowder to highlight those specific items on the SMART Matrix to be discussed before each Standards Annual and Winter Board meeting.	Sowder	<p>CLOSED This action was closed because it is a standing agenda item.</p>
6/2022-05	Andrew Sowder to chair the 2023 Standards Service Award Selection Committee with support from Dennis Henneke, and Larry Wetzel.	Sowder, Henneke, Wetzel	<p>CLOSED</p>
6/2022-13	Robert Youngblood [for Prasad Kadambi] to request James O'Brien and Prasad Kadambi to establish a mechanism to collect feedback on the use of the Guidance Document.	Kadambi	<p>CLOSED A section was added to the CCC reports to collect this information. Additionally, this item will be added to the quarterly CC chair meeting.</p>
6/2021-04	Policy Task Group to contact Standards Board members on possible changes to priorities for ANS standards development. NOTE: This action is a reassignment from Action Item 6/2018-02. DUE DATE: November 1, 2023	Policy Task Group	<p>OPEN</p>
6/2021-17	Policy Task Group to develop guidance for working groups on copyright and plagiarism for inclusion in the toolkit.	Policy Task Group/Eggett	<p>CLOSED This action item was closed. See ACTION ITEM 6/2023-15 for follow on action.</p>