

Standards Board (SB) Meeting

June 15, 2021

Attended	#	Voting Member Name	Role	Company
x	1	Amir Afzali	At-Large (2023)	Southern Nuclear Operating Company
-	2	Robert Bari	At-Large (2021)	Brookhaven National Laboratory
x	3	Donald Eggett	Chair (2022) At-Large (2023)	Eggett Consulting LLC
x	4	George Flanagan	Ex-Officio	Individual
x	5	Michelle French	Ex-Officio	WECTEC
x	6	Dennis Henneke	Ex-Officio	GE Hitachi
x	7	Mark Linn	At-Large (2023)	Individual
x	8	Jean-Francois "Jef" Lucchini	Ex-Officio	Los Alamos National Laboratory
x	9	Charles "Chip" Martin	Ex-Officio	Longenecker and Associates
x	10	Carl Mazzola	Vice Chair (2022) At-Large (2023) Ex-Officio	Los Alamos National Laboratory
x	11	John Nakoski	At-Large (2023)	U.S. Nuclear Regulatory Commission
x	12	Andrew Smetana	Ex-Officio	Individual
x	13	Andrew Sowder	At-Large (2024)	Electric Power Research Institute
x	14	Donald Spellman	At-Large (2023)	Xcel Engineering
x	15	Steven Stamm	At-Large (2024)	Individual
x	16	William Turkowski	At-Large (2022)	Westinghouse Electric Co. LLC
x	17	Larry Wetzol	Ex-Officio	BWX Technologies, Inc.
16	16/17 Votes = 94.1% Participation			

Attended	#	Nonvoting Member Name	Role	Company
x	1	Robert Budnitz	SB Observer	Lawrence Berkeley National Laboratory (retired)
x	2	Sudesh Gambhir	SB Observer	Institute of Nuclear Power Operations
x	3	N. Prasad Kadambi	SB Observer	Kadambi Engineering Consultants
x	4	Robert Kalantari	SB Observer	Engineering Planning & Management, Inc.
x	5	Frances Pimentel	SB Observer	Nuclear Energy Institute
x	6	Robert Roche-Rivera	SB Observer	U.S. Nuclear Regulatory Commission
x	7	Edward Wallace	SB Observer	GNBC Associates

Attended	#	Name	Role	Company
x	1	James August	Guest	Individual
x	2	James Baciak	Guest (ETWDD Liaison)	University of Florida
x	3	Louise Lund	Guest	U.S. Nuclear Regulatory Commission
x	4	Steven Nesbit	Guest (ANS Vice President)	LMNT Consulting
x	5	Mark Richter	Guest	Nuclear Energy Institute
x	6	Garrett Smith	Guest	U.S. Department of Energy

1. Welcome and Roll Call

Roll call was taken, and a quorum was established. Standards Board (SB) Chair Donald Eggett recognized that the virtual meetings are working well but stated that he is looking forward to physical meetings in the future. He expects these future meetings to be hybrid. While not meeting physically since the pandemic, much has been accomplished. Eggett mentioned he appreciates and looks to everyone for their contribution. New observers and liaisons were recognized.

2. Approval of Agenda

Donald Eggett stated that he is looking to condense the meeting by limiting discussion times. If needed, lengthier discussions can be addressed outside of the SB meeting. The agenda was approved unanimously with the flexibility to move discussion items, as needed, to accommodate schedules.

3. SB Chair Report

A. Reminder on ANS's Respectful Behavior Policy and Statement on Diversity

([Link to Respectful Behavior Policy](#)) ([Link to Statement on Diversity](#))

Members were reminded of ANS's Respectful Behavior policy and the new Statement on Diversity. If not familiar with these, members were asked to review the policy and statement.

B. Standards Board Members

- Appreciation of Standards Board Members with Terms Ending
- Welcome to New Members, Observers, and Liaisons

The following individuals were recognized:

- Appreciation to Robert Bari, Brookhaven National Laboratory (SB member term ending 6/17/21)
- Welcome to Jen Call, Oasys/TVA (SB member term beginning 6/18/21)
- Welcome to Robert Budnitz, Lawrence Berkeley National Laboratory-retired (SB observer)
- Welcome to Robert Kalantari, Engineering Planning & Management, Inc. (SB observer)
- Welcome to Sudesh Gambhir, Institute of Nuclear Power Operations (SB observer)

C. Report to the Board of Directors

Eggett summarized his report to the Board of Directors. See [Attachment 1](#) for the full Board of Directors report.

D. Report from ANS President's Special Session

See [Attachment 2](#) for the presentation from the ANS President's Special Session. Items mentioned during that session include the following:

- ANS' finances
- Future move of ANS headquarters/property sale
- Need for a rapid response to industry events
- ANS' K-12 education program
- Need to update the ANS Rules and Bylaws
- Future meetings (physical/hybrid)

E. Presentation to the International Trade Administration (ITA) Small Modular Reactor Private Public Program (SMR PPP)

Eggett gave a presentation on behalf of the SB to the ITA SMR PPP on April 29, 2021. The presentation (see [Attachment 3](#)) provided an overview of the ANS standards development process and our work on advanced reactor standards. A representative from the American Society of Mechanical Engineers (ASME) Board on Nuclear Codes and Standards (BNCS) also presented. Currently, there are no follow up actions. This ITA participation was intended to elevate the need for

ANS, ASME, and other standards development organizations (SDOs) to support the European Union (EU) on small modular reactors (SMRs) in future engagements.

- F. Status on the ANS/ASME U.S. Nuclear Standards Advisory Committee (USNSAC)
Eggett recognized that the USNSAC proposal ([Attachment 4](#)) received unanimous approval from the SB. The SB will follow-up and move the proposal to the ANS Executive Committee for their approval. The ASME BNCS will discuss the proposal at their upcoming meeting on June 24, 2021. Once approved by the BNCS, it will be moved up to their Council and then their Executive Committee. After approval of both executive committees, a business agreement will be pursued between the two societies.
- G. General Comments on Various SB Initiatives
Eggett recognized several new consensus committee chairs and vice chairs over the last few months. He emphasized that the SB is comprised of volunteers whether appointed as an at-large member, an ex-officio member (i.e., consensus committee chair), observer, or liaison. He emphasized that we all need to contribute wherever we can. He urged members to consider supporting additional SB initiatives, where possible.

4. SB Vice Chair Report

A. 2021 Standards Service Award

SB Vice Chair Carl Mazzola provided some background on the Standards Service Award Selection Committee's role. As Vice Chair, he leads the Selection Committee. Besides Mazzola, this year's Selection Committee included Robert Budnitz, John Nakoski, William Turkowski, and Larry Wetzel. All five of the Selection Committee members scored one of the nominees with the highest score. Mazzola announced their selection of Dr. Stanley Levinson, who was recognized for his substantial impact on all the probabilistic risk assessment standards. The following motion was made and seconded:

MOTION: To approve the recommendation of Dr. Stanley Levinson to be the 2021 Standards Service Award recipient.

The motion was approved unanimously.

ACTION ITEM 6/2021-01: Donald Eggett to call Stanley Levinson and personally congratulate him as the recipient of the 2021 Standards Service Award.

The following individuals were selected as the 2022 Standards Service Award Selection Committee to assist Carl Mazzola:

- Amir Afzali
- Dennis Henneke
- John Nakoski
- William Turkowski
- Larry Wetzel

ACTION ITEM 6/2021-02: Carl Mazzola to lead the 2022 Standards Service Award Selection Committee with support from Amir Afzali, Dennis Henneke, John Nakoski, William Turkowski, and Larry Wetzel.
DUE DATE: May 1, 2022

5. Secretary Report

Pat Schroeder provided a high-level summary of her secretary report including staff activities, the standards sales report, and an update on the associate member program. For full details, see [Attachments 5 A-C](#).

6. Review of Open Action Items Report

A. Report on Open Action Items

Donald Spellman responded to Action Item 11/2020-01 to check with the Institute of Electrical and Electronics Engineers (IEEE) for feedback on consolidating standards endorsed by the U.S. Nuclear Regulatory Commission (NRC) in his IEEE Liaison report, which is available as [Attachment 6](#).

[Attachment 7](#) was provided to show completion of Action Item 11/2020-02 for the Internal Communications Task Group (ICTG) to facilitate a review of the NEI 19-03 (Rev. 1) report by all eight consensus committees, and to identify additional standards that may support the standards needs (new or revised) of the advanced reactor initiative.

Several meetings were held in response to Action Item 11/2020-07 to discuss the Professional Division (PD)/Standards Committee (SC) Liaison Program. [Attachment 8](#) provides a summary of these meetings.

A complete status report of open action items is provided at the end of these minutes. The following new action items were assigned during the discussion:

ACTION ITEM 6/2021-03: Donald Spellman to send Standards Board members a copy of the External Committee Task Group (ECTG) PowerPoint presentation for their information.
DUE DATE: July 1, 2021

ACTION ITEM 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, 2021

B. Concurrence to Close Report of Completed Action Items

Members reviewed the completed action items list ([Attachment 9](#)) and agreed all had been completed and should be closed. The following motion was made and seconded.

MOTION: To close the action items on the completed action item list.

The motion was approved unanimously.

7. Consensus Committee Business

A. Consensus Committee Leadership Succession Plans

Donald Eggett recognized the importance of consensus committee leadership succession plans. Consensus committee chairs were urged to consider a succession plan in the near term instead of waiting to the last minute.

B. Consensus Committee Membership Size

Pat Schroeder had noticed that consensus committee voting membership has declined for some of the consensus committees leaving several groups with a quite small constituency. Her concern is that ANS standards may not be getting a sufficient review during balloting, particularly because not all groups have active subcommittees or unique members. ANS consensus committee (CC) voting membership is provided below with the number of members preceding the CC:

- 14 - Environmental and Siting Consensus Committee (ESCC)
- 12 - Fuel, Waste, and Decommissioning Consensus Committee (FWDCC)
- 34 - ANS/ASME Joint Committee on Nuclear Risk Management (JCNRM)
- 16 - Large Light Water Reactor Consensus Committee (LLWRCC)
- 15 - Nuclear Criticality Safety Consensus Committee (NCSCC)
- 13 - Nonreactor Nuclear Facilities Consensus Committee (NRNFCC)
- 17 - Research and Advanced Reactors Consensus Committee (RARCC)
- 14 - Safety and Radiological Analyses Consensus Committee (SRACC)

Schroeder contacted several other SDOs, inquiring about their consensus committee sizes, structure, and practices. A summary of feedback from these SDOs is provided as [Attachment 10](#). Additionally, Schroeder prepared an analysis of recent ballots showing the number of members that reviewed draft standards on subcommittees and CCs. The analysis is available as [Attachment 11](#).

Schroeder's survey with other SDOs found that ANS' consensus committees, overall, are smaller. Other SDO consensus committee sizes were as high as 2000 members and as low as 20 members. The American National Standards Institute (ANSI) was also contacted for feedback. While ANSI does not have a requirement for the size of a consensus committee, consensus committees found to have only 10 (or less) members during an ANSI audit, would receive a strong recommendation to increase the committee's size.

In reviewing the analysis on ANS ballots, a couple of standards were approved with a total of 10 individuals reviewing the draft, and several more with 12 or less reviewing. The question posed is whether this small number of reviewers can represent the industry sufficiently. If not, what number of consensus committee voting members would ensure a sufficient review while keeping the committee a productive size.

Members agreed that it was worthwhile for the Policy Task Group to look at two aspects—1) the minimal number of acceptable voting members on a consensus committee, and 2) the minimal number of ballots return needed.

ACTION ITEM 6/2021-05: Policy Task Group to evaluate 1) the minimal number of acceptable voting members on a consensus committee, and 2) the minimal number of ballots return needed.
DUE DATE: November 1, 2021

Donald Spellman believes that the International Organization of Standardization (ISO) has issued guidance on balloting requirements and will share it if he is able to locate it.

ACTION ITEM 6/2021-06: Donald Spellman to provide Standards Board members balloting guidance from the International Organization of Standardization (ISO).
DUE DATE: September 1, 2021

C. Use of Standards Committee Survey Feedback to Increase Volunteers

A survey was issued to Standards Committee members at the end of 2020 asking members to share their experience on time contribution, benefits, and other sentiments. The time contribution, as expected, was found to be highly variable at all committee and position levels due to the

uniqueness of projects and committee activities. One central theme that was heard was that members find enjoyment and a sense of fulfillment for participating in standards activities. A summary of the survey feedback is available in the following link ([Link to Survey Feedback](#)). The summary is good information for those that may be interested in becoming involved in the standards program. Articles with the survey feedback were published in Nuclear Standards News, Notes and Deadlines, and provided to Nuclear News staff for inclusion in ANS News.

D. 2020 Consensus Committee Performance Evaluations

The 2020 Consensus Committee Performance Evaluations were reviewed – see [Attachment 12](#). Eggett feels that you need to be a little subjective on reviewing the evaluations. When questioned, Steven Stamm clarified that the point of recognizing new standards is to consider whether new standards are needed. Moving the report on new standards to the CC chair report was discussed but the sentiment was that consideration of new standards wouldn't be given as much significance. A suggestion was made that CC chairs develop an action plan for metrics with "poor" ratings and provide it to the SB for review.

ACTION ITEM 6/2021-07: Consensus committee chairs to develop an action plan to improve "poor" ratings on the 2020 Consensus Committee Performance Evaluation and share with the SB.
DUE DATE: September 1, 2021

NCSCC, LLWRCC, NRNFCC, SRACC, and FWDCC chairs confirmed that they have contacted members with poor performance. Also, consensus committee members have been reminded to submit a vote of "abstain" if the subject matter area is outside of their expertise. Spellman added that as an overall advisor for the U.S. Nuclear Technical Advisory Group (NTAG), he has directed NTAG members to review drafts for inconsistencies or editorial issues if the subject matter is not within their expertise. Members agreed that comments from a technically-minded person can add value. Spellman offered to share his directions to NTAG members.

ACTION ITEM 6/2021-08: Donald Spellman to forward to the SB his directions to NTAG members on submitting comments in lieu of abstaining.
DUE DATE: September 1, 2021

E. Re-evaluation of Consensus Committee Performance Metrics

The discussion of the performance metrics above did not lead to any changes in the metrics.

8. Standards Committee Strategic Plan Report/SMART Matrix Progress

Progress on Goals & Objectives--SMART Matrix

Steven Stamm summarized the decision-making process on updating the Standards Committee Strategic Plan using the presentation available at [Attachment 13](#). He stated that essentially the goals are the same, but the Standards Committee hasn't progressed very well. A new approach is needed which is intended to be filled by a proposed Executive Advisory Committee (EAC), still requiring approval by the SB. Stamm continued in stating that we need to be very focused on what EAC members are asked to do to focus in their area of interest requiring minimal time. A comparison of EAC's role and the USNSAC's role was provided since SB members perceived that there is overlap. Stamm mentioned that he doesn't see a lot of overlap between the two committees.

Currently, the SMART matrix has too many actions to be workable without additional support. Senior industry people are intended to comprise the makeup of the EAC and will need to be recruited needing assistance from the ECTG. Spellman added that a volunteer database is still needed to help search for new members. Stamm has tried over several years to develop such a database. Schroeder acknowledged that there are challenges to this development. The last recommendation from ANS President Mary Lou Dunzik-Gougar directed the SB that a formal business case will be needed to be

submitted to the Board of Directors. Members felt that the business case needs to be developed listing needed features before ANS selects the new Association Management System. Mazzola suggested that other SDOs be contacted to see if they have a volunteer database. Sowder added that the need for volunteers has come to the attention of the Electric Power Research Institute (EPRI) leadership, and they are looking at ways they can help. Sowder expects to be able to share more details on additional support from EPRI in the coming months.

ACTION ITEM 6/2021-09: Pat Schroeder to send Donald Eggett the ANS Business Case Form.
DUE DATE: July 1, 2021

ACTION ITEM 6/2021-10: Donald Eggett and Donald Spellman to contact ASME and IEEE, respectively, to see if they have a volunteer database.
DUE DATE: September 1, 2021

ACTION ITEM 6/2021-11: Chip Martin to share the database used by ASME NQA-1 (with their permission).
DUE DATE: September 1, 2021

ACTION ITEM 6/2021-12: Andrew Sowder to share information about EPRI's support of volunteers for SDOs.
DUE DATE: October 1, 2021

SB members commended Stamm for an outstanding job on following through and completing the 2021-2016 Standards Committee Strategic Plan.

A. Summary of Updated SMART Matrix

The updated SMART Matrix was distributed ahead of the meeting (See [Attachment 14](#)). At the request of members, Stamm converted the file to Excel. The Excel file will allow actions to be sorted by action owners. A question was posed whether there is a benefit to incorporating the SMART Matrix with the action item list.

ACTION ITEM 6/2021-13: Steven Stamm to distribute the Excel version of the SMART Matrix.
DUE DATE: September 1, 2021

ACTION ITEM 6/2021-14: Steven Stamm to consider whether the SMART Matrix should be incorporated into the action item list.
DUE DATE: September 1, 2021

B. Progress Report

Members need to go through the SMART Matrix and determine how to staff their actions. Stamm would like assignees to provide a response including how they are recruiting members to ensure the completion of actions on schedule. Assignees also need to look at the schedule and determine how realistic the due dates are.

ACTION ITEM 6/2021-15: SMART Matrix assignees to review the SMART Matrix and let Donald Eggett and Carl Mazzola know how many new members they need to complete assigned actions.
DUE DATE: July 1, 2021

C. New Actions and SB Assignments

- Formation of the EAC
- Task Groups Actions

Carl Mazzola recognized that Jen Call has taken on the Sales Task Group chair role and is currently working with Pat Schroeder to solicit new members to that task group. Eggett and Mazzola will work on assigning Standards Board members and observers to task groups.

ACTION ITEM 6/2021-16: Donald Eggett and Carl Mazzola to assign Standards Board members and observers to task groups.
DUE DATE: August 1, 2021

9. Current and Emergent Issues

A. Standards Copyright of ANS Standards Work Products

Carl Mazzola led a discussion on copyright and plagiarism. The Standards Committee's Policy on Handling References and Excerpts in Standards provides guidance on the use of 3rd party material and the working group chair's responsibility to complete a disclosure form identifying material needing copyright permission to use. Working group chairs are asked to disclose the use of 3rd party material in ANS standards so that ANS staff can acquire copyright permission from the publisher. Appropriate credit needs to be given when using materials from another source to avoid plagiarism risks. ANS does not have a policy recognizing that unfinished work (i.e., draft standards) are considered copyrighted material the same as ANSI-approved standards and trial-use standards. Anyone wishing to use ANS material must request ANS' permission. Members discussed and felt that information on copyright and plagiarism should be included in the toolkit.

ACTION ITEM 6/2021-17: Policy Task Group to develop guidance for working groups on copyright and plagiarism for inclusion in the toolkit.
DUE DATE: November 1, 2021

Donald Eggett suggested that James August's concern on plagiarism be discussed in a separate meeting with him and Carl Mazzola outside of the SB meeting.

ACTION ITEM 6/2021-18: Pat Schroeder to facilitate a call with Donald Eggett, Carl Mazzola, and James August to discuss plagiarism concern.
DUE DATE: July 1, 2021

John Nakoski addressed a question about material developed by NRC staff for SDOs like ANS. Typically, the work of federal employees is non copyrighted and must be publicly accessible. The NRC recently held internal discussions on how this applies to staff participation on voluntary consensus standard work. The sentiment from NRC is that the work of an NRC staff member on a voluntary consensus standard is not necessarily the NRC's position. The final work is the result of the consensus process and not the work of the NRC. Louise Lund added that NRC's legal department was consulted, and they agreed that the SDO owned the copyright for the work. This clarification is not in their Management Directive 6.5, but probably should be. Any NRC members with questions can be directed to John Nakoski.

B. Meeting Schedule for 2021 ANS Winter Meeting

The upcoming winter meeting was rescheduled for Tuesday, November 30 – Saturday, December 4, 2021, at the Hilton in Washington D.C. due to the closure of the Marriott Wardman Hotel. Acquiring a new site so close to the meeting date required the meeting week and days to be changed. The typical winter meeting schedule and its converted day for the 2021 winter meeting are provided below for reference:

ANS Meeting Typical Day	ANS 2021 Winter Meeting Converted Day	Committee	Meeting Time
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Sunday	Tuesday	SRACC	3:00pm – 5:00pm
Monday*	Wednesday*	NRNFCC	8:00am – 10:00am
		ESCC	10:00am – 12:00pm
		FWDC	10:00am – 12:00pm
		RARCC	1:00pm – 3:00pm
		NCSCC	1:30pm – 4:00pm
		RP3C	3:30pm – 6:00pm
Tuesday	Thursday	Standards Board	8:30am – 5:00pm
Wednesday	Friday	LLWRCC	9:00am – 12:00pm

*Committees have been directed not to meet during the opening plenary.

C. Other Current and Emergent Issues

Eggett addressed harmonization of standards within the industry. It is important for SDOs and industry to come together to make sure we are all talking from the same page. The joint ANS/ASME USNSAC will help in this effort. Members were encouraged to submit suggestions on how to accomplish this goal.

Steven Stamm expressed concern about the revision to Policy A2, Policy on ANS Standards Board Committees, currently out for ballot. His issue is with the removal of the definition of “organization” and examples which were added to the last revision by request of the SB. The current policy differentiates separation of companies with mergers. Stamm has already been provided a response that his comment to retain the definition will not be accepted and wanted the support of SB members to keep the definition in the policy. The following motion was made and seconded.

MOTION: to keep the definition of “organization” along with the examples in Policy A2.

The sentiment of members was that the ballot process should be used to decide whether the definition of organization and related examples are retained. The following motion was made:

MOTION: to table the motion to keep the definition of “organization” along with the examples in Policy A2 and let the ballot decide.

The motion was approved with two negatives from Stamm and Dennis Henneke.

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

A. RP3C Meeting Report

Prasad Kadambi provided a report on behalf of the RP3C. The RP3C meeting was held earlier than usual, the week before the SB meeting due to Kadambi’s surgery on June 8. The RP3C had a good meeting with significant participation. Kadambi believes he can meet the SMART Matrix actions assigned to RP3C but did ask Steven Stamm to make a few editorial changes on RP3C tasks. Kadambi also reported on the response to a RP3C survey. He is not sure that the RP3C’s Risk-Informed, Performance-Based (RIPB) Guidance Document itself will do much to resolve the issue of varied expectation. See RP3C’s report provided as [Attachment 15](#) for details.

Kadambi also reported that he is working with the Operations and Power Division to respond to advanced reactor rulemaking 10 CFR 53 and made a presentation to the Advisory Committee on Reactor Safety on behalf of ANS, not RP3C. He believes that ANS can help with cost-benefit analysis and could be of help to the FWDC. Kadambi has already contacted FWDC Chair Jef Lucchini who will be working with RP3C in this effort. Chip Martin thought that there was an Energy Facility Contractors Group document on cost analysis that may provide insight.

B. CC/RP3C Collaboration ([Attachments 16 & 17](#))

The current process that RP3C works directly with CC working groups continues. Several working groups provided status reports at the meeting. The RP3C makes recommendations to working

groups which they have full freedom to accept or reject. If the working group rejects RP3C's recommendations, Kadambi would like the working group chair to report to RP3C what aspect they are rejecting and why they are doing so for consideration by RP3C and the CC. He would like the CC to consider the implications of rejected suggestions to other standards within the CC. The CC chair should then update the SB as part of normal reporting so that RP3C can participate in the SB discussion on the matter and incorporate appropriate changes into the Guidance Document, if the resulting SB direction is applicable to the guidance.

C. RIPB Guidance Document and Training Plan Status

Kadambi acknowledged that he recently received comments and proposed text changes on the Guidance Document from JCNRM commenters. Unfortunately, there was not enough time to address all the comments before the meeting. The subgroup of RP3C members addressing the comments include James O'Brien, Ed Wallace, and Kadambi. Consistent with SB direction, the revised Guidance Document will be balloted by RP3C. Review comments will be addressed with the next version presented to the SB for direction.

D. RIPB Community of Practice (CoP) Report

RP3C's CoP was initiated February 2020 and is held on the last Friday of the month from 3:00 pm to 4:00 pm eastern time. Participants from many different parts of the nuclear industry have shared their knowledge. Kadambi believes the CoP is a successful effort to socialize RIPB methods and get more people to understand the basic concepts. Donald Eggett commended Kadambi for hosting the CoPs and suggested that others participate.

11. Consensus Committee Chair Reports

To save on time, members agreed to review the provided written reports from each consensus committee in lieu of oral reports.

A. Environmental and Siting Consensus Committee (ESCC) ([Attachment 18](#))

- Plan for any standards that are over 5 years old—NA
- Status of high priority standards efforts
 - Top 20 standards progress & evaluation ([Attachment 19](#))
- Identification and progress of new standards, including status of project plans
- No open inquiries
- New ESCC Vice Chair (February 2021)

B. Fuel, Waste, and Decommissioning Consensus Committee (FWDCC) ([Attachment 20](#))

- Plan for any standards that are over 5 years old—NA
- Status of high priority standards efforts
 - Top 20 standards progress & evaluation ([Attachment 19](#))
- Identification and progress of new standards, including status of project plans
- No open inquiries
- New consensus committee total as of 6/1/21

C. Joint Committee on Nuclear Risk Management (JCNRM) ([Attachment 21](#))

- Plans for standards that are over 5 years old—NA
- Status of high priority standards efforts
 - Top 20 standards progress & evaluation ([Attachment 19](#))
- Identification and progress of new standards, including status of project plans
- No open inquiries
- New JCNRM Chair (February 2021) and Vice Chair (May 2021)

- JCNRM reorganization

D. Large Light Water Reactor Consensus Committee (LLWRCC) ([Attachment 22](#))

- Plans for standards that are over 5 years old—NA
- Status of high priority standards efforts
 - Top 20 standards progress & evaluation ([Attachment 19](#))
- Identification and progress of new standards, including status of project plans
- No open inquiries

E. Nonreactor Nuclear Facilities Consensus Committee (NRNFCC) ([Attachment 23](#))

- Plans for standards that are over 5 years old—NA
- Status of high priority standards efforts
- Identification and progress of new standards, including status of project plans
- No open inquiries

F. Nuclear Criticality Safety Consensus Committee (NCSCC) ([Attachment 24](#))

- Plans for standards that are over 5 years old—(ANS-8.12, 8.22 & 8.26)
- Status of high priority standards efforts
- Identification and progress of new standards, including status of project plans
- No open inquiries

G. Research and Advanced Reactors Consensus Committee (RARCC) ([Attachment 25](#))

- Plans for standards that are over 5 years old—(ANS-15.2, 53.1)
- Status of high priority standards efforts
 - Top 20 standards progress & evaluation ([Attachment 19](#))
- Identification and progress of new standards, including status of project plans
- No open inquiries
- Movement toward SMRs

H. Safety and Radiological Analyses Consensus Committee (SRACC) ([Attachment 26](#))

- Plans for standards that are over 5 years old— (ANS-6.4.2, 19.10)
- Status of high priority standards efforts
 - Top 20 standards progress & evaluation ([Attachment 19](#))
- Identification and progress of new standards, including status of project plans
- No open inquiries

12. Other Committee Reports

A. Standards Board Task Group Reports
(SB Task Group Charters & Members – [Attachment 27](#))

- Policy Task Group Report
Donald Eggett recognized that the Policy Task Group has been assigned a number of tasks under the SMART Matrix.
- ECTG Report

Donald Spellman reviewed the ECTG Action Plan ([Attachment 28](#)). The plan needs to be updated to be consistent with the SMART Matrix and remove duplication. Spellman prepared a basic presentation. A contact list is about 80% complete. Work within the USNSAC will be integrated when that group is formed. Spellman added that the ECTG also intends to harmonize on an international level. He has had contact with the World Nuclear Associates, the Cordell groups, and the International Atomic Energy Agency. Donald Eggett thanked Spellman for his work.

- ICTG Report

William Turkowski has been the chair and single member of the ICTG for the last five years but has had occasional support and feedback from other SB members. He has developed a draft ICTG Action Plan ([Attachment 29](#)) which he will be finalizing.

ACTION ITEM 6/2021-19: William Turkowski to finalize the ICTG Action Plan inclusive of SMART Matrix tasks.

DUE DATE: September 1, 2021

- Professional Division (PD)/Standards Committee (SC) Liaisons (See [Attachment 30](#))
Turkowski reported that he has held three to four meetings regarding the PD/SC Liaison Program. He is currently working to modify the current liaison format to get a single person interface as both the PD and SC liaison. One example is Sven Bader who has the role of liaison to the FWDC and the Fuel Cycle and Waste Management Division. Turkowski will be making a presentation to the Professional Division Committee (PDC) next month to get divisions more interested in the liaison program. He hopes that the presentation to the PDC will lead to a standing agenda item at their meetings.

- Priority Task Group Report

Eggett recognized that we do not have anyone heading up the Priority Task Group. He would like to see membership include a representative from NEI, NRC, DOE and other SDOs.

- Sales Task Group (STG) Report

Eggett reported that Jen Call has accepted the STG Chair role. Call has updated the action plan prepared by David Sachs with new due dates. A copy of the STG Action Plan is available as [Attachment 31](#).

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

- American Concrete Institute (ACI): Open
No report provided.

- American National Standards Institute (ANSI): Prasad Kadambi
No report provided.

- American Society of Civil Engineers (ASCE): Carl Mazzola
Mazzola mentioned that an invitation has been extended to Michael Salmon to join the ESCC as the ASCE Liaison.

ACTION ITEM 6/2021-20: Carl Mazzola with Robert Budnitz's assistance to follow up with Michael Salmon on his invitation to join the ESCC as the ASCE liaison.

DUE DATE: July 15, 2021

- Electric Power Research Institute (EPRI): Andrew Sowder
Sowder provided the presentation available at [Attachment 32](#).

- Health Physics Society (HPS): Ali Simpkins (for the Shielding Subcommittee/ANS-6)
No report provided.

- IEEE Nuclear Power Engineering Committee (NPEC): Donald Spellman (SB liaison to NPEC)/Richard Wood (NPEC liaison to SB)
Spellman provided a liaison report available as [Attachment 6](#). The report has a list of IEEE standards that may be of interest to consensus committee chairs.
- Institute of Nuclear Power Operations (INPO): Sudesh Gambhir
Gambhir reported for INPO. His report is available as [Attachment 33](#).
- International Organization of Standardization (ISO)/Technical Committee (TC) 85/Subcommittee (SC) 6: Donald Spellman
Spellman reported that the NTAG has held a few virtual meetings. NTAG is responsible for collecting input from U.S. experts and submitting the U.S. vote on TC 85 activities. The next TC 85 meeting is to be held in China. Spellman has been working with U.S. experts for SC 6 to reduce abstained ballots. He is also working with NTAG to aid in the harmonization of U.S. and international standards.
- National Council on Radiation and Protection (NCRP): Open
No report provided.
- Nuclear Energy Institute (NEI): Frances Pimentel
Pimentel reported on NEI activities. Her report is available as [Attachment 34](#).
- National Fire Protection Association (NFPA): Open
No report provided.
- ASME NQA-1: Chip Martin
Chip Martin provided a written report. See [Attachment 35](#).

13. Review of Action Items from This Meeting

Action items assigned during the meeting were reviewed.

14. Other Business

Steven Stamm introduced James Baciak as the Education, Training, and Workforce Development Division Liaison. Stamm and Baciak have had discussion on standards and opportunities for the division. Donald Eggett recommended that Baciak lean on Stamm as a personal point-of-contact to keep engaged.

15. Future Meetings

- ANS Winter Meeting in Washington D.C. at the Washington Hilton from November 30 – December 4, 2021
- ANS Annual Meeting in Anaheim, CA, at the Anaheim Hilton from June 12-16, 2022

Donald Eggett is looking forward to a physical Standards Board meeting to be held during the 2021 ANS Winter meeting and seeing members in person. With the meeting start date changed from Sunday to Tuesday, the Standards Board meeting would be scheduled on Thursday, December 2, 2021.

16. Adjournment

The meeting was adjourned.

Standards Board Action Item Report from 6/15/21 Meeting

Action Item	Description	Responsibility	Status/Comments /Reassignments
6/2021-01	Donald Eggett to call Stanley Levinson and personally congratulate him as the recipient of the 2021 Standards Service Award.	Eggett	OPEN
6/2021-02	Carl Mazzola to lead the 2022 Standards Service Award Selection Committee with support from Amir Afzali, Dennis Henneke, John Nakoski, William Turkowski, and Larry Wetzel. DUE DATE: May 1, 2022	Mazzola Afzali Henneke Nakoski Turkowski Wetzel	OPEN
6/2021-03	Donald Spellman to send Standards Board members a copy of the ECTG PowerPoint presentation for their information. DUE DATE: July 1, 2021	Spellman	OPEN
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, 2021	Policy Task Group	OPEN
6/2021-05	Policy Task Group to evaluate 1) the minimal number of acceptable voting members on a consensus committee and 2) the minimal number of ballots return needed. DUE DATE: November 1, 2021	Policy Task Group	OPEN
6/2021-06	Donald Spellman to provide Standards Board members balloting guidance from the International Organization of Standardization (ISO). DUE DATE: September 1, 2021	Spellman	OPEN
6/2021-07	Consensus committee chairs to develop an action plan to improve "poor" ratings on the 2020 Consensus Committee Performance Evaluation and share with the SB. DUE DATE: September 1, 2021	Consensus Committee Chairs	OPEN
6/2021-08	Donald Spellman to forward to the SB his directions to NTAG members on submitting comments in lieu of abstaining. DUE DATE: September 1, 2021	Spellman	OPEN
6/2021-09	Pat Schroeder to send Donald Eggett the ANS Business Case Form. DUE DATE: July 1, 2021	Schroeder	OPEN
6/2021-10	Donald Eggett and Donald Spellman to contact ASME and IEEE, respectively, to see if they have a volunteer database. DUE DATE: September 1, 2021	Eggett Spellman	OPEN
6/2021-11	Chip Martin to share the database used by ASME NQA-1 (with their permission). DUE DATE: September 1, 2021	Martin	OPEN
6/2021-12	Andrew Sowder to share information about EPRI's support of volunteers for SDOs. DUE DATE: October 1, 2021	Sowder	OPEN
6/2021-13	Steven Stamm to distribute the Excel version of the SMART Matrix. DUE DATE: September 1, 2021	Stamm	OPEN

6/2021-14	Steven Stamm to consider whether the SMART Matrix should be incorporated into the action item list. DUE DATE: September 1, 2021	Stamm	OPEN
6/2021-15	SMART Matrix assignees to review the SMART Matrix and let Donald Eggett and Carl Mazzola know how many new members they need to complete assigned actions. DUE DATE: July 1, 2021	SMART Matrix Assignees	OPEN
6/2021-16	Donald Eggett and Carl Mazzola to assign Standards Board members and observers to task groups. DUE DATE: August 1, 2021	Eggett Mazzola	OPEN
6/2021-17	Policy Task Group to develop guidance for working groups on copyright and plagiarism for inclusion in the toolkit. DUE DATE: November 1, 2021	Policy Task Group/Eggett	OPEN
6/2021-18	Pat Schroeder to facilitate a call with Donald Eggett, Carl Mazzola, and James August to discuss plagiarism concern. DUE DATE: July 1, 2021	Eggett Mazzola Schroeder	OPEN
6/2021-19	William Turkowski to finalize the ICTG Action Plan inclusive of SMART Matrix tasks. DUE DATE: September 1, 2021	Turkowski	OPEN
6/2021-20	Carl Mazzola with Robert Budnitz's assistance to follow up with Michael Salmon on his invitation to join the ESCC as the ASCE liaison. DUE DATE: July 15, 2021	Mazzola Budnitz	OPEN
11/2020-01	Donald Spellman to check with IEEE for feedback on consolidating standards endorsed by the NRC.	Spellman	CLOSED An update was a provided by D. Spellman in his IEEE Liaison Report.
11/2020-02	ICTG to facilitate a review of NEI 19-03 (Rev. 1) by all eight consensus committees to identify additional standards in their program of work that may support the standards needs (new or revised) of the advanced reactor initiative.	Turkowski	CLOSED Call held to discuss on 2/24/21 and results discussed.
11/2020-03	Pat Schroeder to incorporate ANSI's recommendations into the Standards Committee Rules and Procedures and Policy Manual and provide to the Policy Task Group for review before issuing to the full SB for approval. DUE DATE: November 1, 2021	Schroeder	OPEN The SC Rules & Procedures (R&P) were revised and approved by the SB. They are currently pending ANSI approval. The Policy Manual and CC Procedures Manual will be revised once the R&P are formally approved.
11/2020-04	Donald Eggett and Donald Spellman/ECTG to work with Thomas Vogan on evaluating ANS and ASME standards for overlap. DUE DATE: September 1, 2021	Spellman/ ECTG	OPEN T. Vogan is on the list of contacts to be made through ECTG for coordination with SDOs. This action item was amended to recognize D. Spellman responsible with support from ECTG members.
11/2020-05	Donald Spellman to develop a presentation to interact with other organizations similar to ASME's presentation provided at the 11/17/20 SB meeting. The presentation needs to be closely coordinated with the Standard Board Chair and other proposed strategic actions to ensure coordination with SB industry initiatives.	Spellman Eggett	CLOSED This action item is part of the ECTG Action Plan and has been completed. D. Spellman has prepared a generic presentation on behalf of ECTG.

11/2020-07	Donald Eggett, Carl Mazzola, Steven Stamm, and William Turkowski to discuss the PD Liaison Program after this meeting.	Eggett Mazzola Stamm Turkowski	CLOSED B. Turkowski held call with D. Eggett, C. Mazzola, S. Stamm on 3/11/21. Subsequent call with SC liaisons held 4/14/21 and call held 6/1/21 with PDC leadership. Turkowski will make a presentation to the PDC in July 2021.
6/2020-01	George Flanagan to work with Pat Schroeder for a promotion to solicit volunteers for advanced reactor standards when ready.	Flanagan Schroeder	CLOSED G. Flanagan stated that RARCC is good for now. He recognized a shortage of SMEs in this area that have already been tapped. Microreactors are the next area to pursue but need to see how NRC will handle before initiating additional standards.
6/2020-06	Ed Wallace to help Mark Linn respond to comments related to NEI 18-04 from the RARCC preliminary ballot of ANS-30.1, "Integrating Risk and Performance Objectives into New Reactor Safety Designs." DUE DATE: February 1, 2021	Wallace, Linn	CLOSED Overtaken by events.
6/2020-08	James O'Brien and Prasad Kadambi to make a brief presentation on risk-informed, performance-based methods to the ANS-19 Subcommittee on Reactor Physics at their next meeting during the ANS Winter Meeting. DUE DATE: November 1, 2021	O'Brien, Kadambi	OPEN
6/2020-15	Prasad Kadambi to provide RP3C products to the Divisions for their information and feedback. DUE DATE: November 1, 2021	Kadambi	OPEN Kadambi will work with Turkowski to make a presentation at a meeting. This presentation requires completion of the Guidance Document.
6/2019-07	Donald Eggett (lead), George Flanagan, Prasad Kadambi, and Mark Linn to evaluate the current balance of interest definitions (Annex A) and propose a revision of the "Individual" category. DUE DATE: June 1, 2021	Eggett, Flanagan, Kadambi, Linn	OPEN ASME has the same issue; however, they allow self-employed to be categorized in the category of the majority of their work. CC balance of interest remains in compliance.
6/2018-02	Donald Eggett and Andrew Sowder to contact SB members on possible changes to industry priorities for standards development. DUE DATE: June 1, 2021	Eggett	CLOSED A new action item was assigned for the Policy Task Group to address. See Action Item 6/2021-04.