

Standards Board (SB) September 16, 2022

Attended	Voting Member Name	Role	Company
	Amir Afzali	At-Large (2023)	Southern Nuclear Operating Company
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	George Flanagan	Ex-Officio	Individual
x	Michelle French	Ex-Officio	WECTEC
x	Dennis Henneke	Ex-Officio	GE Hitachi
x	Robert Kalantari	At-Large (2025)	Engineering Planning & Management, Inc.
	Mark Linn	At-Large (2023)	Individual
x	Jean-Francois "Jef" Lucchini	Ex-Officio	Los Alamos National Laboratory
	Charles "Chip" Martin	Ex-Officio	Longenecker and Associates
	Carl Mazzola	At-Large (2023) Ex-Officio	Los Alamos National Laboratory
x	John Nakoski	At-Large (2023)	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	Steven Stamm	At-Large (2024)	Individual
x	Larry Wetzel	Ex-Officio	BWX Technologies, Inc.
13	13/17 Votes = 76.47% Participation		
Attended	Nonvoting Member Name	Role	Company
x	Robert Budnitz	Observer	Lawrence Berkeley National Laboratory (retired)
x	John Mahoney	BOD Liaison	High Expectations International, LLC
x	Frances Pimentel	NEI Liaison	Nuclear Energy Institute
x	George Raymond	INPO Liaison	Institute of Nuclear Power Operations
x	Robert Roche-Rivera	Observer	U.S. Nuclear Regulatory Commission
x	Donald Spellman	Observer	Xcel Engineering

1. Welcome and Roll Call

A roll call was taken, and a quorum was established. SB Chair Don Eggett welcomed all. He explained that this interim meeting was called to lighten the agenda for the November meeting and spend more time discussing new issues.

2. Approval of Agenda

John Mahoney asked to discuss a new Board of Director initiative that has relevance to standards under new business. The agenda was approved as presented.

3. SB Chair Remarks

Don Eggett stated that he plans to continue the practice of holding interim meetings between ANS national meetings to allow time to discuss bigger issues requiring more time. He looks to all members to engage in discussions.

4. Status Update on Standards ANS-30.1, ANS-30.2, ANS-30.3

ANS-30.1, Integrating Risk and Performance Objectives into New Reactor Nuclear Safety Designs

George Flanagan reported the following:

- The document is being developed as a guidance standard at the direction of the SB; the working group had mixed sentiments about the direction.
- Under ANS-30.1 Working Group Chair Mark Linn, the working group is converting the draft to a guidance standard.
- The rewrite includes the bulk of the information without requirements.
- While some members pulled out, others were added.
- The draft guidance standard is anticipated to be ready for preliminary review by the end of 2022.

ANS-30.2, Classification and Categorization of Structures, Systems, and Components for New Nuclear Power Plants

George Flanagan reported the following:

- The standard is still evolving.
- It is being designed to be used domestically and internationally.
- The standard will be risk informed, performance based and will be based on NEI 18-04, Risk-Informed Performance-Based Technology Inclusive Guidance for Non-Light Water Reactor Licensing Basis Development, with three classifications for equipment.
- Subgroups are meeting bi-weekly and are on target to complete the draft in August 2023.

ANS-30.3, Light-Water Reactor Risk-Informed Performance-Based Design

Michelle French reported the following:

- The standard was approved July 31, 2022.
- Much effort was made by the working group to complete this standard.
- A request was submitted to the U.S. Nuclear Regulatory Commission for its endorsement.
- A presentation on ANS-30.3 was made to the American Society of Mechanical Engineers (ASME) Plant System Design (PSD) Committee.
- A presentation on ANS-30.3 will be made at the NRC Standards Forum later this month.

Members discussed ASME's system engineering standards and whether they can exist side-by-side with ANS standards. It was recognized that the PSD Standard was not industry specific and would need to be written at a very high level. A suggestion was made for Don Eggett to discuss harmonization of ANS standards and the ASME PSD Standard (currently in development) with PSD Chair Ralph Hill prior to the November meeting and setup a presentation on the PSD Standard at the November SB meeting.

ACTION ITEM 9/2022-01: Don Eggett to 1) discuss harmonization of ANS standards and the ASME PSD Standard (currently in development) with PSD Chair Ralph Hill prior to the November meeting and 2) request a presentation on the PSD Standard at the November SB meeting. (Pat Schroeder to help facilitate the meeting.)

DUE DATE: October 1, 2022

5. Formation of Executive Advisory Committee (EAC)



Steven Stamm opened the discussion pointing out that we have struggled to maintain standards and to solicit volunteers. Additionally, many volunteers have little time to devote to standards and are not getting management support for this work. Several ways to solicit new volunteers have not been successful. The thought is that EAC members can help in these efforts. The concept of an EAC emerged from the Strategic Plan. EAC membership should be selected from senior people, ideally senior nuclear officer level. Stamm recognized that a similar effort was initiated a good 15 years ago. He believes it failed because the expectation was that the group would meet physically. He doesn't feel this platform works. The time commitment needs to be minimized as does the request for EAC member input. The request would be to review recommendations on the need for a particular standard—not developing the standard itself. EAC members could appoint someone from their organization to support the working group. EAC members would not have veto power but that their input would be taken as recommendations. EAC members would need to be informed as to their specific role.

Andrew Sowder feels that the end result of the Nuclear Energy Institute (NEI)/Electric Power Research Institute (EPRI) Roadmap will be increased interest and support of standards volunteers as there will be buy in from senior executives. The drive from the top is different. Sowder stated that the difference now is the emphasis at least for advanced reactors. There is acknowledgment of the need, and now has a different level of attention. Stamm added that the purpose of the EAC is to focus on ANS as opposed to the industry. Sowder feels that the two initiatives can coexist. The roadmap objective will be to identify what standards are needed both near term and in the future. Eggett clarified that the effort will be standards development organization (SDO) led and will include Canada (CSA).

Don Eggett explained that he asked Robert Kalantari to help with formation of the EAC and asked for his thoughts. It is Kalantari's sentiments that we will not get support from chief nuclear officers (CNOs) because they would not have the time to commit. EAC members need to have the time to thoroughly review and comment on recommendations. Kalantari proposed to split the EAC into two groups—1) utilities and 2) vendors that develop new technology. He feels that the EAC focus should be on new reactors and should include people involved in new reactors. Kalantari would expect for the design/program manager would go to their management and emphasize the need for them to be involved. Kalantari has contacts with CNOs but thinks that we should go after the designers. He feels EPRI is an extension of the utilities and can be a good conduit. Donald Spellman said that we already have the ability to do this through the SB task groups and using the task groups would retain ANS control.

After discussing the EAC, it was agreed that the scope of the committee should be narrowed and initiated as a trial. A proposal or solicitation materials were needed to start recruiting members.

ACTION ITEM 9/2022-02: Don Eggett, Robert Kalantari, and Donald Spellman to develop a proposal for a limited trial for the EAC to use as solicitation material.
DUE DATE: November 1, 2022

6. Establishment of an Ad hoc Committee to Determine a Process for Future Assignments Involving Dual Consensus Committees (Action Item: 6/2022-12)

Don Eggett explained that Action Item 6/2022-12, to establish an ad hoc committee to determine a process for future assignments involving dual consensus committees, stemmed from the risk-Informed, emergency preparedness and the cyber and physical security projects. Without the involved individuals

participating in this meeting, a decision was made by Don Eggett to schedule a separate meeting with Rick Grantom, Dennis Henneke, Greg Hudson, George Flanagan, and Michelle French to discuss the issue and proposed resolution.

ACTION ITEM 9/2022-03: Don Eggett (with help from Pat Schroeder) to schedule a meeting with Rick Grantom, Dennis Henneke, Greg Hudson, George Flanagan, and Michelle French to discuss the need for a process to determine future assignment involving dual consensus committees per ACTION ITEM: 6/2022-12.

DUE DATE: November 1, 2022

Steven Stamm stated that all ANS standards have been assigned a consensus. The thought was that the assigned consensus committee would be the lead with the other consensus committee playing a supportive role. With overlap of some consensus committees, the question is what the criteria is to change the assignment.

French stated that Mark Linn has been working on a proposal to rebrand the Large Light Water Reactor Consensus Committee (LLWRCC) because of an overlap with the Research and Advanced Reactor Consensus Committee (RARCC). The proposal was recently issued to the LLWRCC for comment and will be discussed at the committee's November meeting before socializing it more broadly. The thought is that the committee's name which includes LWR sounds specific when it's actually technology neutral. The LWR title is not of interest to would be volunteers. Flanagan feels that there are a number of overlaps between RARCC and other committees. He doesn't feel that there have been problems as decisions have been made on a case-by case-basis. SB members were interested in the proposal and would like to hear more details.

ACTION ITEM 9/2022-04: Michele French to ask Mark Linn to plan on a briefing of his rebranding proposal at the November SB meeting.

DUE DATE: November 15, 2022

7. Harmonization of Standards



NHSI_Harmonization_of_Std...
n_of_Std...pptx

Andrew Sowder presented the embedded slides with an update on international efforts led by International Atomic Energy Agency (IAEA) to harmonize the framework of standards called the Nuclear Harmonization and Standardization Initiative (NHSI). Sowder also reported on EPRI's efforts related to harmonization for the advanced reactor requirements documents. Donald Spellman offered Sowder help to reach out to the International Organization of Standardization if needed. The presentation on harmonization of U.S. standards from the 2020 NRC Standards Forum was distributed during the meeting and is embedded here for reference.



NRC_Std...
NRC_Std...
mization of U.S.:

8. Standards Development Organization (SDO)-led Advanced Reactor Codes & Standards (C&S) Workshop December 1, 2022, Washington DC, EPRI Office

Don Eggett explained that the SDO-led Advanced Reactor C&S proposal is a fall out from the North American Advanced Reactors Roadmap. The approved ANS/ASME/EPRI Nuclear Standards Collaborative has merged with the SDO-led Advanced Reactor C&S proposed initiative. The workshop scheduled on December 1, 2022, will be a strategic planning meeting. The meeting will be in-person with a virtual option. The roadmap provides a top-down connection to senior executives that will allow us to go after resources for standards. It is clear that advanced reactor designers need to be involved in

standards. Eggett sees the first workshop as a way to open everyone's eyes on what is going on. He encouraged everyone to get engaged and attend the 12/1/22 workshop. Sowder noted that Mark Richter of NEI is the facilitator and primary point of contact on this effort.

9. New Business

John Mahoney informed members that the ANS Board of Directors (BOD) is initiating a new program to start a nuclear professional's certification. They have started talking to vendors on how this might be initiated, how it could be proctored, the certification process, etc. He feels it will make sense to have standards as a piece of the certification and that this added knowledge would add value. The BOD talked about it at the June 2022 meeting and just had their first, bi-weekly planning meeting. A formal proposal should be available for presentation at the winter meeting. Feedback is needed from ANS committees and divisions for this to be established. Robert Becse, Westinghouse, and Raymond George, INPO, were appointed to work with Mahoney.

ACTION ITEM 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: October 1, 2022

10. Review of Action Items from This Meeting

Action items assigned during the meeting were reviewed.

11. Next Meeting

The next SB meeting is scheduled for Tuesday, November 15, 2022, from 9:00am – 4:00pm MOUNTAIN/Phoenix time during the 2022 ANS Winter Meeting at the Arizona Grand Resort in Phoenix.

12. Adjournment

The meeting was adjourned with no further business.

Standards Board OPEN Action Item List

NOTE: Action Items Not Reported at 9/16/22 Meeting

Action Item	Description	Responsibility	Status/Comments
9/2022-01	Don Eggett to 1) discuss harmonization of ANS standards and the ASME PSD Standard (currently in development) with PSD Chair Ralph Hill prior to the November meeting and 2) request a presentation on the PSD Standard at the November SB meeting. (Pat Schroeder to help facilitate the meeting.) DUE DATE: October 1, 2022	Eggett	OPEN
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. DUE DATE: November 1, 2022	Eggett, Kalantari Spellman	OPEN
9/2022-03	Don Eggett (with help from Pat Schroeder) to schedule a meeting with Rick Grantom, Dennis Henneke, Greg Hudson, George Flanagan, and Michelle French to discuss the need for a process to determine future assignment involving dual consensus committees per ACTION ITEM: 6/2022-12. DUE DATE: November 1, 2022	Eggett (Schroeder)	OPEN
9/2022-04	Michele French to ask Mark Linn to plan on a briefing of his rebranding proposal at the November SB meeting. DUE DATE: November 15, 2022	French Linn	OPEN
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: October 1, 2022	Becse, George, Mahoney	OPEN
6/2022-01	Pat Schroeder to review the respectful behavior policy and recommend how the SB should address. DUE DATE: November 1, 2022	Schroeder	Completed After review and discussion w/D. Eggett, it was deemed appropriate to disseminate the policy to the full Standards Committee as a reminder. Policy sent 7/13/22.
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. DUE DATE: Before each SB meeting.	Sowder	OPEN
6/2022-03	Pat Schroeder to provide SB members a copy of the Standards Committee Strategic Plan and the link to the ballot to determine and verify if SB approval of the EAC was received. DUE DATE: July 1, 2022	Schroeder	Completed Provided 6/15/22. Message accessible on Collaborate HERE .
6/2022-04	Don Eggett to inform Douglas Bowen on his selection for the 2022 Standards Service Award. DUE DATE: July 1, 2022	Eggett	Completed
6/2022-05	Andrew Sowder to chair the 2023 Standards Service Award Selection Committee with support from Dennis Henneke, John Nakoski, and Larry Wetzal. DUE DATE: May 1, 2023	Sowder, Henneke, Nakoski, Wetzal	OPEN
6/2022-06	Pat Schroeder to inform working group chairs of the availability of the Standards Committee Volunteer Database. DUE DATE: July 15, 2022	Schroeder	Completed Announcement sent to all SC Chairs 7/13/22.
6/2022-07	Pat Schroeder to check with Engineering Village to see if ANS will be provided reports on subscriber searches	Schroeder	OPEN Contract is being reviewed by

	that net ANS standards results. DUE DATE: August 1, 2022		ANS management. Question is being held until contract review is completed.
6/2022-08	Pat Schroeder to add an item to the next agenda for members to express appreciation or provide positive feedback on subject matter of interest. DUE DATE: November 1, 2022	Schroeder	OPEN
6/2022-09	Pat Schroeder to distribute the ANS Advanced Reactor Working Group (ARWG) charter and roster to the SB. DUE DATE: July 1, 2022	Schroeder	Completed Sent 6/21/22. Message accessible on Collaborate HERE .
6/2022-10	Andrew Sowder to follow up with Richard Wood on efforts to harmonize IEEE standards with ISO, IEC, IAEA, and CORDEL standards and guidance documents. DUE DATE: September 1, 2022	Sowder	OPEN
6/2022-11	Pat Schroeder to revise the boilerplate material in the frontend of ANS standards to be applicable to ANS guidance documents and provide to SB leadership for review. A copy of the revised frontend should be provided to John Mahoney after reviewed by SB leadership. DUE DATE: August 1, 2022	Schroeder	Completed The revised frontmatter was reviewed by D. Eggett & J. Mahoney and approved by ANS management for use.
6/2022-12	Don Eggett to setup an ad hoc committee to propose a process for consensus committee assignments on future standards and products that involve dual consensus committees. DUE DATE: November 1, 2022	Eggett	OPEN
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. DUE DATE: July 1, 2022	Kadambi	Completed Message sent 6/14/22.
6/2022-14	Consensus committee chairs to work on succession planning for leadership terms ending in 2023. DUE DATE: November 1, 2022	Consensus Committee Chairs	OPEN
6/2022-15	Pat Schroeder to check with the YMG about recruiting members for standards through their Slack channel. DUE DATE: August 8, 2022	Schroeder	Completed Request send 7/13/22. Reminder sent 8/18/22.
6/2022-16	Pat Schroeder to check with management and TechStreet on STG recommendations #6 and #7. DUE DATE: August 1, 2022	Schroeder	OPEN Yes, discount codes can be offered. Only one discount can be used per transaction. Techstreet is not able to authenticate emails with .edu to offer discount. Also, many past students retain their .edu email long after graduation. Techstreet suggested to offer reduced price of a newly published standard instead of a pre-pay discount.
12/2021-04	Robert Becse with support of Prasad Kadambi to make a presentation on the RP3C Guidance Document at a Professional Divisions Committee meeting. DUE DATE: August 1, 2022	Becse Kadambi	Complete? Presentation made to PDC 7/21/22 on PD liaisons and on the GD.
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, 2022	Policy Task Group	OPEN

6/2021-15	SMART Matrix assignees to review the SMART Matrix and let Don Eggett and Andrew Sowder know how many new members they need to complete assigned actions. DUE DATE: September 1, 2022	SMART Matrix Assignees	OPEN ECTG is believed to have sufficient members but does need a new chair due to D. Spellman's resignation. ICTG could use additional members.
6/2021-16	Don Eggett and Andrew Sowder to assign Standards Board members and observers to task groups. DUE DATE: September 1, 2022	Eggett Sowder	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, 2022	Policy Task Group/Eggett	OPEN