



# MINUTES

## Standards Board (SB)

November 8, 2016

Caesars Palace, Las Vegas, NV

### Members Present:

George F. Flanagan, SB Chair & RARCC Chair, Oak Ridge National Laboratory

\*Steven L. Stamm, SB Vice Chair, Individual

\*James K. August, Member at Large, Southern Nuclear Operating Company

Robert J. Budnitz, JCNRM Co-Chair, Lawrence Berkeley National Laboratory

Robert D. Busch, NCSCC Chair, University of New Mexico

Gene Carpenter, LLWRCC Chair, U.S. Department of Energy

Donald R. Eggett, FWDC Chair, Individual

Calvin Hopper (Observer), Individual

N. Prasad Kadambi, RP3C Chair & ISO & ANSI Liaison, Individual

Carl A. Mazzola, ESCC Chair, CB & I Federal Services

James O'Brien, NRNFCC Chair, U.S. Department of Energy

\*James Riley, NEI Liaison, Nuclear Energy Institute

\*R. David Sachs, Member at Large, Individual

William Reuland (Observer), Individual

Patricia (Pat) A. Schroeder, SB Secretary, American Nuclear Society

Andrew Smetana, SRACC Chair, Savannah River National Laboratory

Andrew Sowder, Member at Large, Electric Power Research Institute

William M. Turkowski, Member at Large, Westinghouse

Edward Wallace, Member at Large, Individual

*\*Participated by teleconference for at least a portion of the meeting.*

### Guests:

Steven Arndt (ANS Treasurer), U.S. Nuclear Regulatory Commission

William Corwin, U.S. Department of Energy

Eugene Grecheck (Past ANS President), Grecheck Consulting, LLC

John Kelly, U.S. Department of Energy

Andrew Klein (ANS President), Oregon State University

Mark Linn, Oak Ridge National Laboratory

David Johnson, ABS Consulting

Larry Wetzel, BWX Technologies, Inc.

### Voting Member Absent:

Charles (Chuck) H. Moseley, Member at Large, Individual

## 1. Welcome and Introductions

ANS Standards Board (SB) Chair George Flanagan welcomed all to the meeting; introductions were made. Flanagan informed members that John Kelly with the U.S. Department of Energy (DOE) would be addressing the committee to discuss DOE's interest in advanced reactor standards. Additionally, Ed Wallace will be offering a presentation on the modernization of licensing during lunch for members that are interested.

## 2. Approval of Agenda

The agenda was approved as presented.



### 3. SB Chair Report

#### A. Report to the Board of Directors and Miscellaneous ANS Information (Attachment 1)

George Flanagan let members know that the Standards Committee Strategic Plan did not get sent to the ANS Board of Directors (BOD) last June as we had thought. The Strategic Plan has since been sent and will be reviewed at Thursday's BOD meeting.

Flanagan explained that the short-term action plan requested by the Planning Committee did not get a good response from Standing Committees; less than 50% of Standing Committees were responsive. The SB was one of the few that responded. The Planning Committee will be taking a new approach with a clean slate. A new form with additional guidance will be provided to Standing Committees by the end of the month with a due date for completion before the June 2017 meeting.

Flanagan informed members that ANS was in the process of being incorporated in Illinois and that there were plans to change the ANS Bylaws and Rules. He expected that one change would be extensions to term limits for Standing Committee volunteers.

#### B. U.S. Nuclear Regulatory Commission (NRC) Standards Forum Report

Flanagan recognized that the NRC Standards Forum replaced the Nuclear Energy Standards Coordination Collaborate that was formed by the American National Standards Institute and the National Institute of Standards and Technology. Flanagan reported that he attended the first meeting of the NRC Standards Forum and made a presentation on our work in advanced reactor standards. He learned that the NRC will be appointing a standards coordinator for each standards development organization (SDO) who will facilitate NRC commenting.

Flanagan informed members that the NRC Performance and Reliability Branch Chief in the Office of Nuclear Regulatory Research will represent the NRC on the SB. That person is currently John Nakoski. Flanagan added that Nakoski's appointment was in process.

The next NRC Standards Forum has not been scheduled but is expected to be held in the March/April 2017 timeframe.

James Riley stated that the NRC's coordination of commenting on standards is a big improvement. The NRC is also working on a revision of Management Directive 6.5, "NRC Participation in the Development and Uses of Consensus Standards." A steering committee is being established at the division level to look at their priorities. James August asked that members be provided a copy of the management directive when released.

Action Item 11/2016-01: George Flanagan to provide Pat Schroeder a copy or link to the revision of Management Directive 6.5 when issued.

**DUE DATE: When Management Directive 6.5 is issued.**

#### C. Engineering Vice President (VP) Meeting Report

Flanagan reported that he provided a presentation on ANS standards activities at the Engineering VP Meeting held at the Institute of Nuclear Power Operations last month. Riley acknowledged SDOs' sentiment that utilities were underrepresented in standards work although they have expressed interest in advanced notice of standards that affect utilities being initiated or just approved. Riley explained that he is the point of communication with the utilities for the following:

- Need for utility representation on code/standards relevant to utilities



## American Nuclear Society

- Advanced notice when a draft which could affect the level of effort at utilities is available for comment
- Standards needed by the industry which could impact utilities

Lastly, Riley informed members that he would be retiring next summer and that his replacement would serve this same purpose.

### D. Advanced Reactor Proposals

John Kelly with DOE addressed the SB. He stated that DOE is working hard on the regulatory process for advanced reactors. A regulatory guide will be issued next year with a technology-neutral design. They are now looking at the Standard Review Plan (SRP) and need to go down a level deeper to find what is needed to accommodate advanced reactors. Kelly stated that he spoke with Jennifer Uhle, NRC's Deputy for Reactor Safety Programs in the Office of Nuclear Reactor Regulation, and they both feel that SDOs should develop a roadmap to prioritize the work and their investment. Kelly informed members that some funding has been provided to Oak Ridge National Laboratory (ORNL) to start a gap analysis to be completed within a year. This gap analysis will set a plan for the roadmap. DOE would be amenable to a proposal to prepare the roadmap. Kelly sees this as important to vendors as they need to be engaged.

When questioned, Kelly didn't have a specific example of a roadmap to provide but described it as a priority list. Ed Wallace agreed that getting the foundation in place was very important. Kelly reiterated that getting the framework in place is the priority; then risk-informed, performance-based methods could be incorporated. Andrew Sowder asked that Kelly provide him a summary of DOE work on the standards regulatory framework.

Action Item 11/2016-02: George Flanagan, as the RARCC Chair, should direct that inputs from the Licensing Modernization Project be considered in prioritization of ANS non-LWR advanced reactors.

**DUE DATE: June 1, 2017**

Action Item 11/2016-03: George Flanagan to provide the SB the gap analysis developed by ORNL, once completed.

**DUE DATE: October/November 2017**

Action Item 11/2016-04: Pat Schroeder to add an agenda item for the November 2017 meeting to discuss an advanced reactor proposal for development of a roadmap/priority list.

**DUE DATE: November 1, 2017**

### 1) Standards Funding

The funding effort for SDOs is currently on hold until a gap analysis is prepared.

### 2) Gap Analysis/Roadmap

As explained by John Kelly, ORNL has been provided funding to prepare a gap analysis. Once the gap analysis has been completed, proposals to develop a roadmap may be considered.

### 4. ANS-30.1 Status Report/Change in Direction (Attachment 2)

ANS-30.1 Working Group Chair Mark Linn addressed the SB. He explained that the working group was currently identifying objectives for all chapters. They are preparing a "conceptual draft" to solicit input to make sure they are on the right path. Linn summarized the 11 proposed chapters. A 12<sup>th</sup> chapter may be added to provide performance objectives. Linn stated that William Reckley with the NRC reviewed the draft and thought it was a step in the right direction. Linn explained that he would



be setting up a steering committee to provide direction to the working group. Sowder offered to connect him with the Nuclear Energy Institute (NEI) Task Group if he wanted additional eyes and to facilitate a review of the ANS-30.1 conceptual draft.

Action Item 11/2016-05: Andrew Sowder to facilitate a review of the ANS-30.1 draft with the NEI Task Group.

**DUE DATE: January 30, 2017**

Action Item 11/2016-06: Pat Schroeder to acquire the draft of ANS-30.1 from ANS-30.1 Working Group Chair Mark Linn and issue to the SB for review and comment on Workspace.

**DUE DATE: November 15, 2017**

## **5. SB Vice Chair Report**

- A. Consensus Committee Procedures Manual Update (Attachment 3)  
Steven Stamm directed members to Attachment 3 for a summary of the changes made to the procedures manual for consensus committees. The ballot closed yesterday with 14 approvals. Only one member provided comments. Stamm believes that the comments are editorial or clarifications.
- B. Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Standard Evaluation (Attachment 4)  
Stamm reminded members that there was a previous discussion on developing a standard on ITAAC. Additional evaluation has found that there is sufficient interest for an ITAAC standard for new reactors. The proposal would be to develop a new standard for advanced reactors under the Research and Advanced Reactors Consensus Committee (RARCC).

Action Item 11/2016-07: George Flanagan to work with RARCC to consider a new standard on ITAAC for advanced reactors.

**DUE DATE: June 1, 2017**

- C. Revision of Liaison Policy  
Stamm reported that the ballot to approve the revision of the liaison policy had closed without comment and was ready to be issued.

## **6. Secretary/Staff Report**

- A. Staff Report  
See Attachment 5 for the full report.
- B. Sales Report  
The sales report is available as Attachment 6.

## **7. Collaboration on Joint Standards**

Steven Arndt, the ANS Treasurer, addressed the SB. He stated that the Finance Committee feels that they have not been working with the constituents to improve products, services, and revenue. Arndt suggested that consideration be given to developing more joint standards and creating new products. He recognized that the SB was looking at creating a fee-based training program. Arndt thought the Standards Committee Strategic Plan was a good start. He suggested that the Strategic Plan address the joint committee with the American Society of Mechanical Engineers (ASME). Prasad Kadambi asked if consideration was given to a conformity assessment program. Arndt



confirmed that they looked at conformity assessment and found that some organizations, such as ASME, generated significant revenue from conformity assessment. Arndt stated that President-Elect Robert Coward was interested at looking at everything as a new opportunity. The key would be to find volunteer support and to develop a business case. It was recognized that preparing a business case to initiate a conformity assessment program would be a significant effort and require funding.

Action Item 11/2016-08: Prasad Kadambi to work with Steven Arndt on preparing a conformity assessment business case.

**DUE DATE: June 1, 2017**

Steven Stamm questioned Arndt on the need for the Planning Committee's revised action plan once a longer-term strategic plan is in place. He indicated that the Planning Committee effort should not be redundant, and we don't need to duplicate efforts that are already covered by the Standards Committee Strategic Plan. Arndt sees the action plan as a tool for the Planning Committee and added that he would pass on the concern to the Planning Committee.

## **8. Need for Utility Support on Working Groups**

This agenda item was discussed throughout the meeting.

## **9. Response to Priority Standards Survey**

### **A. Top Ten Standards Progress (Attachment 7)**

Steven Stamm asked for consensus committee chairs to review the top ten standards list and update him on their progress.

Action Item 11/2016-09: Consensus Committee Chairs let Steven Stamm know the status of the top 10 standards by the end of the year.

**DUE DATE: December 31, 2016**

### **B. 11-20 Standards Evaluation (Attachment 8)**

Steven Stamm reported that he still needs information from the Large Light Water Reactor Consensus Committee (LLWRCC) standards ranked 11-20 on the standards priority survey. Action Item 6/2016-18 was previously assigned for this task.

### **C. Response to Survey Participants (Attachment 9)**

(NOTE: Response to survey top ten standards and survey comments posted to ANS website [here](#)).

Action Item 11/2016-10: LLWRCC to provide response to survey participants by end of year.

**DUE DATE: December 31, 2016**

## **10. SB Governance Plan Progress/Planning Committee Action Plan**

This agenda item was skipped because the Planning Committee will be issuing new objectives and guidance. Ed Wallace questioned whether the Governance Plan should be publicly available. Members were not sure whether it was an appropriate document to share externally or that there would be any external interest. Pat Schroeder stated that the Standards Committee Strategic Plan was posted to the ANS Web site and publicly available.



## 11. SC Strategic Plan Report

### A. Metrics

Steven Stamm explained that a number of metrics were proposed to measure success of the Standards Committee Strategic Plan. One such proposed metric was consensus committee member meeting participation. Members discussed what should be considered reasonable meeting participation. The metrics should help to recognize problem areas. The SB would need to propose a recommendation which could be changed at a later date, if necessary.

Another metric was related to delinquent standards close to being administratively withdrawn by ANSI. Stamm suggested that a metric of nine years be used to establish the number of standards at risk of being withdrawn. Recognizing that standards should be maintained within five years of ANSI approval, members agreed to use the value of eight years which would allow more time to perform maintenance to avoid administrative withdrawal.

Ballot participation was also discussed as a possible metric and whether this would metric could be applied to the JCNRM. Pat Schroeder stated that she had some level of visibility to JCNRM ballots on ASME's C&S Connect (e-balloting site comparable to the ANS Workspace). She would need to check with the JCNRM Secretary if JCNRM ballot participation was to be measured.

Robert Busch questioned the timeframe of the proposed metric to write a new standard. Based on previous comments, Stamm changed the timeframe from 4 to 12 months. Members didn't feel 12 months was nearly enough based on their experience. Members expected that it would take at least two years to get a draft for working group member review. It was recognized that the timeframe to develop a draft is dependent on scarce volunteer resources, many which do not have employer support to work on standards during work hours. Members agreed to set the metric at two years for good and three years for poor.

Action Item 11/2016-11: Steven Stamm to incorporate SB feedback into proposed metrics for the Standards Committee Strategic Plan.

**DUE DATE: December 1, 2016**

### B. Progress

Stamm reported that progress on the objectives of the Strategic Plan is being made. The one area that is furthest behind is related to the Risk-informed, Performance-based Principles and Policy Committee (RP3C). This will be covered within action items.

## 12. Fee-Based Standards Training Program (Attachment 10 & 11)

Steven Stamm explained that the SB and the Membership and Marketing Department were both considering a fee-based training program (Attachment 10). Stamm has been working with Diane Cianflone, the ANS Membership and Marketing Department Director, to launch a fee-based, standards training program as a pilot in 2017.

Diane Cianflone addressed the SB. She explained that they issued a survey and found positive feedback on web-based training. The survey found that members preferred recorded webinars so that they can view at their convenience. Cianflone added that respondents prefer some type of online forum for questions after viewing the webinar. National and international standards ranked first of the provided webinar topics. Cianflone stated that the key point is that the respondents want pertinent information to be organized for them. More detail on the survey findings can be found in Cianflone's presentation available as Attachment 11.



Cianflone informed members that a decision was made not to pursue creation of an e-Learning function as it is considered too risky. Two initiatives remain under consideration – two standards webinars in 2017 and an online nuclear professional engineer class. Potential roadblocks were discussed as well as the next steps. The ANS BOD will make a decision at their meeting this Thursday<sup>1)</sup>. If approved, a consultant will be hired. Stamm added that the key is to find appropriate standards of sufficient interest to draw at least 20 users. A suggestion was made to consider using ANSI/ANS-53.1-2011 (R2016), “Nuclear Safety Design Process for Modular Helium-Cooled Reactor Plants,” for the training pilot. Because ANSI/ANS-53.1-2011 (R2016) is technology neutral, it may have greater appeal. With standards under the ESCC and LLWRCC in consideration, Flanagan suggested that the responsible Consensus Committee Chairs help determine what standards would be appropriate for the fee-based standards training program.

Action Item 11/2016-12: Carl Mazzola and Gene Carpenter to work with Steven Stamm to identify appropriate standards for the fee-based, training program.  
**DUE DATE: February 15, 2017**

**13. Action Items**

- A. Intent of Action Item 11/2015-33 to Research Electric Power Research Institute and ASME Active Working Groups on Buried Piping and Possible Areas for an ANS Standard.  
Steven Stamm explained the information that was not covered by existing standards is the system- and process-related requirements for buried piping. The proposed project was discussed at the LLWRCC meeting and has already been assigned to the LLWRCC.
- B. Review of Open Action Item Report  
The action item report was reviewed. The status of existing action items can be found in the list of action items following these minutes. The following new action items were assigned during this discussion:

Action Item 11/2016-13: Pat Schroeder to email the non-Standards Committee member presentation to George Flanagan, Carl Mazzola, and William Turkowski.  
**DUE DATE: November 15, 2016**

Action Item 11/2016-14: George Flanagan and/or William Turkowski to serve as presenters of the non-Standards Committee member presentation.  
**DUE DATE: January 31, 2017**

Action Item 11/2016-15: Carl Mazzola to check with David Pointer to offer the non-Standards Committee member presentation to the Membership Committee at the next meeting.  
**DUE DATE: January 31, 2017**

Action Item 11/2016-16: Pat Schroeder to check with Diane Cianflone, ANS Membership & Marketing Director, about offering the non-Standards Committee member presentation to ANS members.  
**DUE DATE: November 30, 2016**

Action Item 11/2016-17: Consensus Committee Chairs to follow up with their Professional Division Liaison (list was Attachment 15 of the meeting packet) to facilitate participation.

<sup>1)</sup> NOTE: The ANS Board of Directors met on Thursday following the SB meeting and approved a budget to initiate the fee-based training program as a pilot for 2017.



**DUE DATE: June 1, 2017**

Action Item 11/2016-18: Carl Mazzola to let the Professional Division Chair know of poor response from Professional Division Liaisons.

**DUE DATE: June 1, 2017**

Action Item 11/2016-19: William Turkowski to add Paul Hulse as the Mathematics & Computations Professional Division Liaison.

**DUE DATE: December 31, 2016**

Action Item 11/2016-20: Gene Carpenter to work with James Riley to create a process to provide information to utilities.

**DUE DATE: March 31, 2017**

Action Item 11/2016-21: Consensus Committee Chairs to speak with their subcommittee chairs to make sure they are aware of the toolkit and the standards development process.

**DUE DATE: March 31, 2017**

#### 14. RP3C Report

RP3C Chair Prasad Kadambi directed members to his presentations – Attachment 12. He asked that the record of the RP3C meeting yesterday reflect where the committee currently stands and plans to go. He summarized that the two main themes were: 1) clarification of performance-based Implications of design basis-beyond design basis differentiation and 2) interactions with working groups.

In addition to working with the ANS-30.1 Working Group, the RP3C has reviewed drafts of ANS-2.8, “Probabilistic Evaluation of External Flood Hazards for Nuclear Facilities,” and ANS-51.10 “Auxiliary Feedwater System for Pressurized Water Reactors.” Because these drafts have been completed, they do not want to delay their approval with significant changes. Suggestions were offered for the next revisions of these standards. RP3C suggests for consensus committees to consider outcome objectives from the perspective of the user community when drafting standards. RP3C was asked to begin interactions with working groups when projects are initiated. Kadambi suggested that the RP3C charter may benefit from an update for consistence with the strategic objectives of the SB.

Kadambi explained that the RP3C Risk-Informed and Performance-Based (RIPB) Plan will provide specific links to the Standards Committee Strategic Plan. He added that the RP3C will be preparing a risk-informed, performance-based educational piece (or toolkit) for working groups.

Action Item 11/2016-22: RP3C to provide the SB their risk-informed, performance-based educational piece (or toolkit) for working groups once completed for review.

**DUE DATE: August 31, 2017**

A. RP3C to Address ANS-30.1 Questions  
(Action 6/2015-20)

RP3C has established a path forward for supporting ANS-30.1.

B. RP3C Pilot Program Update  
(Action Items 6/2015-21 & 11/2014-20)

The pilot using ANS-30.1 was dropped as it was deemed not appropriate for this project.





## American Nuclear Society

- C. RP3C Task Group Report on Creating a BDBE Standard  
(Action Item 11/2014-11) This action item has been overcome by events. The draft standard ANS-30.1 and white papers from the Southern Company-led modernization licensing project will address this issue.
- D. Other RP3C Issues  
The following motion was made and seconded for discussion:
- 1) RP3C stops all work on the Standard Application Platform (SAP) and focus entirely on application of risk-informed and performance-based principles to ANS standards;
  - 2) RP3C prepares an initial draft of the ANS Risk-Informed and Performance-Based (RIPB) Standards Plan that addresses how RP3C intends to meet the goals identified in the RP3C Bylaw by March 30, 2017; and
  - 3) The Policy Task Group defines the documentation requirements and guidance for ANS standards.

As suggested by members, Stamm withdrew the motion and amended his proposal into two motions. The first motion was made and seconded:

**MOTION:**

RP3C stops all work on the SAP and the Policy Task Group be tasked with defining the documentation requirements and guidance for documenting the bases and background of ANS standards.

The motion was approved unanimously.

Action Item 11/2016-23: The Policy Task Group to define the documentation requirements and guidance for documenting the bases and background of ANS standards.

**DUE DATE: March 31, 2017**

The second motion was made and seconded:

**MOTION:**

RP3C shall focus on the application of risk-informed and performance-based principles to ANS standards through the preparation of a draft of the ANS RIPB Plan that addresses how RP3C intends to meet the goals identified in the RP3C Bylaws by March 30, 2017.

Members recalled a motion that was previously approved regarding the RIPB plan. The approved motion was found in the November 2014 SB meeting minutes which accepted the RP3C's proposal as outlined in their presentation.

It was unanimously agreed that the motion be turned into an action item for James O'Brien to work with Prasad Kadambi in development of an initial plan that meets the intent of the RP3C Bylaws by the end of March 2017.

Action Item 11/2016-24: James O'Brien and Prasad Kadambi to develop a path forward to complete the RIPB Plan consistent with the current RP3C Bylaws.

**DUE DATE: March 30, 2017**

### 15. Student Section/Associate Membership Report (Attachment 13)



Consensus Committee Chairs confirmed that they either have addressed or were in the progress of addressing underutilized associate members.

**16. Professional Division Liaison Report (Attachment 14)**

Interaction with Professional Division Liaisons was discussed elsewhere.

**17. Consensus Committee Chair Reports**

George Flanagan informed members that most of the Consensus Committee Chairs and Vice Chairs have now exceeded their three-year term and would need to be re-elected. Pat Schroeder explained the policy that an election would need to be held and members would need to be given the opportunity to express interest in the Chair and Vice Chair position. A minimum of a two-month advanced notice is required. Elections can be held in mid-January with SB approval to follow. Schroeder is to send a notice to affected consensus committees.

Action Item 11/2016-25: Pat Schroeder to notify affected consensus committees of the need to re-elect or elect Chairs and Vice Chairs.

**DUE DATE: November 15, 2016**

A. Environmental and Siting Consensus Committee (ESCC)

See Attachment 15 for a full report.

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

See Attachment 16 for a full report. George Flanagan asked that Donald Eggett provide the status of draft standards ANS-57.2, "Design Requirements for Light Water Reactor Used Fuel Storage Facilities at Nuclear Power Plants," and ANS-57.3, "Design Requirements for New Fuel Storage Facilities at Light Water Reactor Plants," to James Riley to pass along to utility engineering VPs.

Action Item 11/2016-26: Donald Eggett to provide James Riley the status of ANS-57.2, "Design Requirements for Light Water Reactor Used Fuel Storage Facilities at Nuclear Power Plants," and ANS-57.3, "Design Requirements for New Fuel Storage Facilities at Light Water Reactor Plants," to pass along to utility engineering VPs.

**DUE DATE: December 1, 2016**

C. Joint Committee on Nuclear Risk Management (JCNRM)

In addition to an update on JCNRM projects, Robert Budnitz reported that the ANS/ASME business agreement has been finalized. He explained that the JCNRM had formed several International Working Groups (IWGs)—a program under the ASME. Related to JCNRM's international collaboration through IWGs, Ed Wallace informed members that the Institute of Electrical and Electronics Engineers (IEEE) has formalized a relationship with International Atomic Energy Agency. George Flanagan explained that IEEE has a different balloting structure. IEEE members can pay extra dues to ballot on any standard. Steven Stamm suggested that he check with IEEE to find out how they ballot standards. He recognized that a good many IEEE standards are no longer approved by ANSI and therefore do not need to meet balance of interest requirements. See Attachment 17 for the JCNRM full report with the status of their projects.

Action Item 11/2016-27: Steven Stamm to check with his IEEE contacts to find out how IEEE ballots standards.

**DUE DATE: November 30, 2016**

D. Large Light Water Reactor Consensus Committee (LLWRCC)



See Attachment 18 for a full report.

**E. Nonreactor Nuclear Facilities Consensus Committee (NRNFCC)**

See Attachment 19 for a full report.

**F. Nuclear Criticality Safety Consensus Committee (NCSCC)**

See Attachment 20 for a full report. Robert Busch informed members that he will be stepping down as NCSCC Chair after six years. Busch prepared the following statement and asked for SB members to endorse:

Standards development shall include economic considerations as evaluated from graded approaches and risk-informed insights for ensuring the protection of operating personnel, the public, and the environment with a level of safety commensurate with other hazards and their physical risks.

Members agreed that more study was needed before endorsing the statement.

Action Item 11/2016-28: Pat Schroeder to send the standards development statement out to members for comment and provide these comments to RP3C for consideration.  
**DUE DATE: December 15, 2016**

Action Item 11/2016-29: RP3C to consider the statement on standards development and SB comments to propose an appropriate statement on standards development.  
**DUE DATE: February 1, 2017**

Action Item 11/2016-30: Policy Task Group to review RP3C’s proposed statement on standards development for endorsement.  
**DUE DATE: April 1, 2017**

**G. Research and Advanced Reactors Consensus Committee (RARCC)**

See Attachment 21 for a full report.

**H. Safety and Radiological Analyses Consensus Committee (SRACC)**

See Attachment 22 for a full report. In addition, Andrew Smetana informed the SB that the working group recommended that ANSI/ANS-10.2-2000 (R2009), “Portability of Scientific and Engineering Software,” be allowed to be administratively withdrawn when it hits 10 years old as it is no longer current and technology is moving too fast to revise at this time. The SRACC approved the working group’s recommendation by motion at their meeting the previous Sunday.

**18. Other Committee Reports**

**A. SB Task Group (TG) (TG List – Attachment 23)**

George Flanagan recognized that Donald Spellman served as the chair of two TGs. With his retirement, new chairs were needed. Flanagan reviewed the list of TG members and asked that these TGs select a chair amongst themselves. The following action items were assigned.

Action Item 11/2016-31: James August and James Riley to determine who will chair the Priority TG.  
**DUE DATE: February 1, 2017**



Action Item 11/2016-32: Stanley Levinson and Ed Wallace to determine who will chair the External Communications TG.

**DUE DATE: February 1, 2017**

Robert Budnitz made the following motion:

MOTION: George Flanagan to write a letter of appreciation to Donald Spellman.

The motion was approved unanimously.

Action Item 11/2016-33: George Flanagan to write a letter of appreciation to Donald Spellman.

**DUE DATE: December 15, 2016 (Spellman resignation effective 1/1/17)**

Robert Budnitz made the following motion:

MOTION: George Flanagan to write a letter of appreciation to Robert Busch.

The motion was approved unanimously.

Action Item 11/2016-34: George Flanagan to write a letter of appreciation to Robert Busch.

**DUE DATE: January 31, 2017 (New chair to take over beginning of February 2017)**

#### B. Liaison Reports (Liaison List – Attachment 24)

Action Item 11/2016-35: George Flanagan to solicit a liaison from IEEE/Nuclear Power Engineering Committee.

**DUE DATE: June 1, 2017**

Action Item 11/2016-36: Pat Schroeder to add Carl Mazzola as the American Society of Civil Engineers Liaison to the liaison list.

**DUE DATE: December 31, 2016**

#### 19. ANS President Address

ANS President Andrew Klein addressed the SB. He informed members that a special session on Nuclear Grand Challenges was held last night and that he was looking for members to help solve these challenges. Several challenges were identified which will be narrowed to ten. An example is reducing the cost of concrete as this is the main cost of building a new plant. Klein invited all SB members to help in addressing these challenges.

Robert Budnitz stated that they are having more and more trouble recruiting new utility members into standards. Klein recognized the challenge. James Riley explained that utilities are not going to support standards unless they are made aware of the benefits. August added that we need to demonstrate relevance of standards and develop them in a timely way. Klein was all for moving things out of licensing space and putting it into standards as a way to increase relevance. Andrew Sowder said that ANS needs to clarify what is different now and why utilities need to support ANS standards. George Flanagan felt that the presentation he made at the engineering VP meeting held last month addressed the benefits. Ed Wallace sees the length of time it takes to develop a standard as the biggest impediment.



John Kelly informed members that the DOE will be talking to the NRC next week and that he will suggest they broadcast their position on standards which he felt would give standards more weight with utilities. Klein suggested that ANS could help broadcast their position through social media.

Past President Gene Grecheck spoke to the SB. He said that the nuclear environment is changing rapidly. A year ago, there was no one on the national scene that supported nuclear. Since then, there are several supporters. The attention has been saving the existing nuclear plants. Now there is interest at many levels for new technology which presents new opportunities for SDOs. We need to engage with those proposing new technologies. Grecheck suggested that engaging with the NRC and DOE should be part of the Standards Committee Strategic Plan. When asked, Grecheck thought the solution for existing plants was not changing the regulatory process. The problem is the cost which is not going to change in this market. It is his hope that new technologies will not need a lot of employees to run a plant which would reduce their costs. In closing, Grecheck stated that he thought ANS leadership was able to help be the voice.

**20. Other business**

No other business was discussed.

**21. Review of action items from this meeting**

Actions Items from the meeting were reviewed.

Action Item 11/2016-37: Pat Schroeder to schedule a teleconference in early 2017 to review the status of action items.  
**DUE DATE: December 1, 2016**

**22. Future Meetings**

- ANS Annual Meeting, June 11-15, 2017, Hyatt Regency San Francisco,
- ANS Winter Meeting, October 29-November 2, 2017, Marriott Wardman Park, DC

**23. Adjournment**

The meeting was adjourned.

<b>List of Attachments</b>
1. SB Chair’s Presentation to ANS BOD
2. ANS-30.1 Presentation (Mark Linn)
3. Summary of Consensus Committee Procedures Update
4. ITACC Updated Evaluation
5. Staff/Secretary Report
6. Standards Sales Report (ANS Store)
7. Standards Priority Survey Top 10 Standards Status
8. Standards Priority Survey 11-20 Ranked Standards Evaluation
9. ANS Survey Comment Response Action Items
10. ANS Standards Fee-Based Training Program Proposal
11. Fee-Based Training Presentation (Diane Cianflone)
12. RP3C Presentation/Report
13. Associate Member Log



## American Nuclear Society

14. ANS Professional Division Liaison List
15. ESCC Chair Report
16. FWDCC Chair Report
17. JCNRM Chair Report
18. LLWRCC Chair Report
19. NRNFFCC Chair Report
20. NCSCC Chair Report
21. RARCC Chair Report
22. SRACC Chair Report
23. SB Task Group Scope & Member List (updated 11/16/16)
24. Standards Committee Liaisons List (updated 11/16/16)

# Standards Board Action Item Report

## November 8, 2016, Meeting

Action Item	Description	Responsibility	Status/Comments /Reassignments
11/2016-01	George Flanagan to provide Pat Schroeder a copy or link to the revision of Management Directive 6.5 when issued. <b>DUE DATE: When Management Directive 6.5 is issued.</b>	George Flanagan	OPEN
11/2016-02	George Flanagan, as the RARCC Chair, should direct that inputs from the Licensing Modernization Project be considered in prioritization of ANS non-LWR advanced reactors. <b>DUE DATE: June 1, 2017</b>	George Flanagan	OPEN
11/2016-03	George Flanagan to provide the SB the gap analysis developed by ORNL once completed. <b>DUE DATE: October/November 2017</b>	George Flanagan	OPEN
11/2016-04	Pat Schroeder to add an agenda item for the November 2017 meeting to discuss an advanced reactor proposal for development of a roadmap/priority list. <b>DUE DATE: November 1, 2017</b>	Pat Schroeder	OPEN
11/2016-05	Andrew Sowder to facilitate a review of the ANS-30.1 draft with the NEI Task Group. <b>DUE DATE: January 30, 2017</b>	Andrew Sowder	OPEN
11/2016-06	Pat Schroeder to acquire the draft of ANS-30.1 from ANS-30.1 Working Group Chair Mark Linn and issue to the SB for review and comment on Workspace. <b>DUE DATE: November 15, 2017</b>	Pat Schroeder	OPEN
11/2016-07	George Flanagan to work with RARCC to consider a new standard on ITACC for advanced reactors. <b>DUE DATE: June 1, 2017</b>	George Flanagan	OPEN
11/2016-08	Prasad Kadambi to work with Steven Arndt on preparing a conformity assessment business case. <b>DUE DATE: June 1, 2017</b>	Prasad Kadambi	OPEN
11/2016-09	Consensus Committee Chairs let Steven Stamm know the status of the top 10 standards by the end of the year. <b>DUE DATE: December 31, 2016</b>	Consensus Committee Chair	OPEN
11/2016-10	LLWRCC to provide response to survey participants by end of year. <b>DUE DATE: December 31, 2016</b>	Gene Carpenter	OPEN
11/2016-11	Steven Stamm to incorporate SB feedback into proposed metrics for the Standards Committee Strategic Plan. <b>DUE DATE: December 1, 2016</b>	Steven Stamm	OPEN
11/2016-12	Carl Mazzola and Gene Carpenter to work with Steven Stamm to identify appropriate standards for the fee-based, training program. <b>DUE DATE: February 15, 2017</b>	Gene Carpenter, Carl Mazzola, Steven Stamm	OPEN

Action Item	Description	Responsibility	Status/Comments /Reassignments
11/2016-13	Pat Schroeder to email the non-Standards Committee member presentation to George Flanagan, Carl Mazzola, and William Turkowski. <b>DUE DATE: November 15, 2016</b>	Pat Schroeder	OPEN
11/2016-14	George Flanagan and/or William Turkowski to serve as presenters of the non-Standards Committee member presentation. <b>DUE DATE: January 31, 2017</b>	George Flanagan, William Turkowski	OPEN
11/2016-15	Carl Mazzola to check with David Pointer to offer the non-Standards Committee member presentation to the Membership Committee at the next meeting. <b>DUE DATE: January 31, 2017</b>	Carl Mazzola	OPEN
11/2016-16	Pat Schroeder to check with Diane Cianflone, ANS Membership & Marketing Director, about offering the non-Standards Committee member presentation to ANS members. <b>DUE DATE: November 30, 2016</b>	Pat Schroeder	OPEN
11/2016-17	Consensus Committee Chairs to follow up with their Professional Division Liaison (See Attachment 14 of these minutes) to facilitate participation. <b>DUE DATE: June 1, 2017</b>	Consensus Committee Chairs	OPEN
11/2016-18	Carl Mazzola to let the Professional Division Chair know of poor response from Professional Division Liaisons. <b>DUE DATE: June 1, 2017</b>		OPEN
11/2016-19	William Turkowski to add Paul Hulse as the Mathematics & Computations Professional Division Liaison. <b>DUE DATE: December 31, 2016</b>	William Turkowski	OPEN
11/2016-20	Gene Carpenter to work with James Riley to create a process to provide information to utilities. <b>DUE DATE: March 31, 2017</b>	Gene Carpenter, James Riley	OPEN
11/2016-21	Consensus Committee Chairs to speak with their subcommittee chairs to make sure they are aware of the toolkit and the standards development process. <b>DUE DATE: March 31, 2017</b>	Consensus Committee Chairs	OPEN
11/2016-22	RP3C to provide the SB their risk-informed, performance-based educational piece (or toolkit) for working groups once completed for review. <b>DUE DATE: August 31, 2017</b>	Prasad Kadambi, Ed Wallace	OPEN
11/2016-23	The Policy Task Group to define the documentation requirements and guidance for documenting the bases and background of ANS standards. <b>DUE DATE: March 31, 2017</b>	Policy TG	OPEN
11/2016-24	James O'Brien and Prasad Kadambi to develop a path forward to complete the RIPB Plan consistent with the current RP3C Bylaws. <b>DUE DATE: March 30, 2017</b>	James O'Brien, Prasad Kadambi	OPEN



Action Item	Description	Responsibility	Status/Comments /Reassignments
11/2016-25	Pat Schroeder to notify affected consensus committees of the need to re-elect or elect Chairs and Vice Chairs. <b>DUE DATE: November 15, 2016</b>	Pat Schroeder	OPEN
11/2016-26	Donald Eggett to provide James Riley the status of ANS-57.2, "Design Requirements for Light Water Reactor Used Fuel Storage Facilities at Nuclear Power Plants," and ANS-57.3, "Design Requirements for New Fuel Storage Facilities at Light Water Reactor Plants," to pass along to utility engineering VPs. <b>DUE DATE: December 1, 2016</b>	Donald Eggett	OPEN
11/2016-27	Steven Stamm to check with his IEEE contacts to find out how IEEE ballots standards. <b>DUE DATE: November 30, 2016</b>	Steven Stamm	OPEN
11/2016-28	Pat Schroeder to send the standards development statement out to members for comment and provide these comments to RP3C for consideration. <b>DUE DATE: December 15, 2016</b>	Pat Schroeder	OPEN
11/2016-29	RP3C to consider the statement on standards development and SB comments to propose an appropriate statement on standards development. <b>DUE DATE: February 1, 2017</b>	Prasad Kadambi, Ed Wallace	OPEN
11/2016-30	Policy Task Group to review RP3C's proposed statement on standards development for endorsement. <b>DUE DATE: April 1, 2017</b>	Policy TG	OPEN
11/2016-31	James August and James Riley to determine who will chair the Priority TG. <b>DUE DATE: February 1, 2017</b>	James August, James Riley	OPEN
11/2016-32	Stanley Levinson and Ed Wallace to determine who will chair the External Communications TG. <b>DUE DATE: February 1, 2017</b>	Stanley Levinson, Ed Wallace	OPEN
11/2016-33	George Flanagan to write a letter of appreciation to Donald Spellman. <b>DUE DATE: December 15, 2016 (Spellman resignation effective 1/1/17)</b>	George Flanagan	OPEN
11/2016-34	George Flanagan to write a letter of appreciation to Robert Busch. <b>DUE DATE: January 31, 2017 (New chair to take over beginning of Feb 2017)</b>	George Flanagan	OPEN
11/2016-35	George Flanagan to solicit a liaison from IEEE/Nuclear Power Engineering Committee. <b>DUE DATE: June 1, 2017</b>	George Flanagan	OPEN
11/2016-36	Pat Schroeder to add Carl Mazzola as the American Institute of Steel Construction Liaison to the liaison list. <b>DUE DATE: December 31, 2016</b>	Pat Schroeder	OPEN

Action Item	Description	Responsibility	Status/Comments /Reassignments
11/2016-37	Pat Schroeder to schedule a teleconference in early 2017 to review the status of action items. <b>DUE DATE: December 1, 2016</b>	Pat Schroeder	OPEN
7/2016-01 #0148	External Communications Task Group to determine a platform to present the nonmember standards education presentation.	External Communications TG	<p>CLOSED</p> <p>Flanagan and Turkowski offered to lead the presentation. Mazzola offered to make the presentation to the Membership Committee at the next meeting and will contact David Pointer. Schroeder was asked to email the presentations to Flanagan, Mazzola, and Turkowski. Schroeder was asked to coordinate presentation to ANS members with Cianflone, the ANS Membership &amp; Marketing Director.</p> <p>The following follow up action items were assigned:</p> <ul style="list-style-type: none"> <li>• 11/2016-13,</li> <li>• 11/2016-14,</li> <li>• 11/2016-15</li> </ul>
7/2016-02	Pat Schroeder to check with the Planning Committee for guidance on completing Part B, C, and D of the Governance Plan.	Pat Schroeder	<p>CLOSED</p> <p>The Planning Committee is revising the form and will provide new objectives and guidance before the end of 2016. New action item to be assigned once direction received.</p>
7/2016-03	Pat Schroeder to include an item on the November SB meeting agenda to discuss the intent of Action Item 11/2015-33 for Andrew Sowder to look into EPRI and ASME active working groups regarding the topic of buried piping and report to the Standard Board if there is any area in which an ANS standard could be developed.	Pat Schroeder	<p>CLOSED</p> <p>Item added to the 11/2016 agenda.</p>
7/2016-04	Pat Schroeder to send consensus committee chairs a reminder to provide a list of standards that need to be added to the NRC Database (See Action Item 11/2015-18).	Pat Schroeder	<p>CLOSED</p> <p>Reminder sent 7/28/16.</p> <p>Info still needed from Carpenter &amp; Eggett. Action Item 11/2015-18 for CC Chairs to provide this information remains open.</p>
7/2016-05	Pat Schroeder to send consensus committee chairs a reminder to provide the status of standards ranked 11-20 on the 2015 standards priority survey (See Action Item 6/2016-18).	Pat Schroeder	<p>CLOSED</p> <p>Reminder sent 7/28/16.</p> <p>Info still needed from Carpenter &amp; Eggett. Action Item 6/2016-18 remains open for CC Chairs to provide status on standards ranked 11-20.</p>

Action Item	Description	Responsibility	Status/Comments /Reassignments
7/2016-06 #0145	William Turkowski to check with consensus committee chairs for feedback on the Professional Division Liaison program prior to the November SB meeting.	William Turkowski	<p><b>CLOSED</b></p> <p>Feedback from CC chairs is that they have received limited to no response. PD Chair is very responsive and distributes PINS, delinquent standards notices, etc.</p> <p>Mazzola stated that the infrastructure was created and now the CC chairs need to involve them.</p> <p>The following follow up action items were assigned for the CC Chairs to contact their PD Liaison and to notify the PD Chair of the poor response.</p> <ul style="list-style-type: none"> <li>• 11/2016-17</li> <li>• 11/2016-18</li> </ul>
7/2016-07	Pat Schroeder to issue a poll to determine availability for a Policy Task Group teleconference the week of October 17 -21 to identify consensus committee metrics and to schedule a teleconference accordingly (See SC Strategic Plan SMART Matrix Goal 3.G)	Pat Schroeder	<p><b>CLOSED</b></p> <p>Teleconference held September 28 (12p-1p Eastern)</p>
7/2016-08	Pat Schroeder to send Donald Spellman a copy of NSN Brief for reference as a possible example of a short newsletter that could be provided to nuclear organizations to incorporate into their newsletter (See SC Strategic Plan SMART Matrix Goal 4.G).	Pat Schroeder	<p><b>CLOSED</b></p> <p>An industry newsletter has been developed. A copy was provided to Jim Riley to combine with info from other SDOs and circulate to utilities, owners groups, etc. A copy of the newsletter is available <a href="#">here</a>.</p>
7/2016-09	Pat Schroeder to check with the <i>Nuclear News</i> Publisher to see a list of standards in need of support can be included in the Standards and Documentation section of the magazine.	Pat Schroeder	<p><b>CLOSED</b></p> <p>Inclusion of volunteers needs acceptable – 5 or so listed at a time.</p>
7/2016-10 #0144	Gene Carpenter to check whether there is a limit of attendees at the NRC Standards Forum and to inform SB members.	Gene Carpenter	<p><b>CLOSED</b></p>
7/2016-11	Pat Schroeder to issue the list of action items to those not on the call with a request to provide an update of their action items.	Pat Schroeder	<p><b>CLOSED</b></p> <p>Issued 8/8/16</p>
7/2016-12	SB members with open action items that were not on the 7/28/16 teleconference to provide a status update to George Flanagan and Steven Stamm.	SB Members w/OPEN Action Items	<p><b>CLOSED</b></p>
7/2016-13	Pat Schroeder to set up a teleconference to discuss potential new JCNRM standards projects with George Flanagan, Steven Stamm, and Robert Budnitz.	Pat Schroeder	<p><b>CLOSED</b></p> <p>Call held 8/3/16. R. Budnitz was asked to voice concern with JCNRM and to provide feedback on this item.</p> <p>JCNRM decided not to develop the proposed standards.</p>

Action Item	Description	Responsibility	Status/Comments /Reassignments
6/2016-01	George Flanagan to request that NEI be represented in the advanced reactor teleconference.	George Flanagan	<p><b>CLOSED</b></p> <p>DOE feels that a gap analysis/roadmap of advanced reactor standards is needed before consideration is given to funding SDOs. DOE hired ORNL to perform gap analysis by November 2017. Roadmap to be considered once gap analysis has been completed.</p>
6/2016-02 #0122	ANS-20.2 and ANS-30.2 Working group chairs prepare an action plans to develop the standards within two years with a recommendation of an individual that could facilitate the development of the initial draft. (Action: CC Chair: George Flanagan)	George Flanagan	<p><b>CLOSED</b></p> <p>Flanagan confirmed that he made the request. Direction may be changed; plans may be needed for other standards. New action items will be assigned as needed.</p>
6/2016-03 #0123	James Riley to help coordinate ANS work on advanced reactor standards with other SDOs and industry. Due Date: On-going	James Riley	<p><b>On-going</b></p>
6/2016-04 #0124 & #0125	Robert Busch and Gene Carpenter to discuss with NRC Standards Executive suitable options for replacing/ appointing NRC representation on working groups.	Robert Busch, Gene Carpenter	<p><b>CLOSED</b></p> <p>Carpenter discussed with NRC and they are going to put together a process.</p>
6/2016-07 #0126	Steven Stamm to investigate the logistics and viability of creating a fee-based standards training program.	Steven Stamm	<p><b>CLOSED</b></p> <p>White paper prepared and working with ANS Marketing Director. To be approved by ANS BOD at Nov 2016 meeting.</p>
6/2016-08 #0127 & #0143	Steven Stamm to develop the SC training approach and schedule for 2016-17.	Steven Stamm	<p><b>CLOSED</b></p> <p>Approach finalized 7/29/16. Members to participate on their own through YouTube as well as scheduling additional live sessions with instructors.</p>
6/2016-09 #0112	Steven Stamm to chair the 2017 SSA Nomination Committee with two other appointed members and report SSA recommendations to the SB Chair. <b>Due Date: May 1, 2017</b>	Steven Stamm	<p><b>OPEN</b></p> <p>Additional members selected. Nominations due by March 1. Nomination Committee will convene after this time.</p>
6/2016-14 #0130 & #0131	External Communications Task Group to evaluate and improve the process of notifying the public and NEI/utilities of standards development activities. <b>Due Date: June 1, 2017</b>	ECTG	<p><b>OPEN</b></p> <p>Riley clarified that he will be facilitating information w/the Engineering VPs and the other SDOs. The information needs to be narrowed to the audience. A follow up action item was assigned for Carpenter to work with Riley to create a process on providing information to utilities. (See Action Item 11/2016-15)</p>

Action Item	Description	Responsibility	Status/Comments /Reassignments
6/2016-16 #0132	Andrew Sowder to contact the Department of Commerce and James O'Brien to check with DOE to see if there is any interest in ANS developing an export control standard for nuclear.	Andrew Sowder James O'Brien	<b>CLOSED</b> <ul style="list-style-type: none"> <li>• J. O'Brien's inquiry found significant interest.</li> <li>• With significant interest, the project was assigned to the LLWRCC. M.Harding has committed to chair this WG. The project has been designated ANS-60.1. Harding is forming a WG and developing a PINS.</li> <li>• Report from A. Sowder: Multiple exchanges with US interagency. Teleconference on 10/25/16 including Commerce, State, DOE, NNSA and NRC. M. Harding was on call. Except for skepticism from NRC (likely due to the specific, more concrete nature of Part 110 EC regs), there seemed to be general interest and support for an industry standard...with all of the caveats that formal review for endorsement is a separate action. Harding's input was extremely useful in providing concrete examples of how a single consensus standard would complement and enhance existing EC regulations. From my perspective, the case for an EC compliance standard is strong.</li> </ul>
6/2016-18 #0146 & #0147	Consensus committee chairs to discuss the needed action on standards ranked 11-20 on the standards priority survey with their consensus committee and provide input at the SB meeting in November. <b>DUE DATE: December 1, 2016</b>	Consensus committee chairs	<b>OPEN</b> Need responses from Carpenter for LLWRCC.
6/2016-21	Pat Schroeder to update the progress on the Governance Plan and provide to the Planning Committee before the November 2016 meeting.	Pat Schroeder	<b>CLOSED</b> The Planning Committee is revising the form and providing additional guidance. Once received, a new action item will be opened.
6/2016-24 #0136	Prasad Kadambi to setup a teleconference/webinar for the RP3C task group to meet with the ANS-30.1 Working Group to discuss their questions and needs. CC chair to attend.	Prasad Kadambi (for RP3C TG), ANS-30.1 WG members, George Flanagan	<b>CLOSED</b> Two calls held end of July
6/2016-25 #0137	Prasad Kadambi to send the SB the RP3C responses to ANS-30.1 questions.	Prasad Kadambi	<b>CLOSED</b>
6/2016-27 #0138 & #0139	Internal Communications Task Group (ICTG) to propose a method to provide Professional Division liaison PINS forms.	ICTG	<b>CLOSED</b> Turkowski confirmed that action item is in the works.
6/2016-28	Pat Schroder to add a standing agenda item for a report of Professional Division liaison activities.	Pat Schroeder	<b>CLOSED</b>

Action Item	Description	Responsibility	Status/Comments /Reassignments
6/2016-29 #0140	Prasad Kadambi to provided information to Andy Klein (after SB approval) to help him understand how ANS can be involved in conformity assessment.	Prasad Kadambi	<b>CLOSED</b>  A follow up action item was assigned for Kadambi to work with S. Arndt on preparing a conformity assessment business case. (See Action Item 11/2016-8)
02/2016-07 #0119	John Nakoski <del>Gene Carpenter</del> to check with the NRC to see if they have reviewed ANSI/ANS-5.1-2014 and are considering replacing the reference of the ANS-5.1 1971 draft in 10CFR50, Appendix K. <b>DUE DATE: March 31, 2017</b>	John Nakoski	<b>OPEN</b>  Carpenter reported that as of the end of August, the review was still in process. This action item was amended to make Nakoski responsible.
11/2015-13	Action Item 11/2015-13: George Flanagan, Steven Stamm, RP3C/Prasad Kadambi, Pat Schroeder, Internal Communications Task Group (ICTG), External Communications Task Group (ECTG) to fulfill the objectives of the SB Objectives Plan as assigned and report progress through Workspace. <b>DUE DATE: Varying (12-18 month plan)</b>	George Flanagan, Steven Stamm, RP3C/Prasad Kadambi, Pat Schroeder, ICTG, ECTG	<b>CLOSED</b>  The Planning Committee will be issuing a revised action plan and guidance. New action items will be assigned as appropriate once the new action plan is prepared/ approved.

Objective	Responsibility
1. Standards Prioritization	George Flanagan
2. ANS PD Sponsorship Program	Internal Communications TG
3. ANS Standards Committee Training Program	George Flanagan, Steven Stamm, and Pat Schroeder
4. Standards Educational Module for Non-Standards Developers	External Communications TG
5. Progress High Priority Standards 1) ANS-30.1 2) ANS-30.2	1) George Flanagan for Mark Linn 2) George Flanagan for Don Spellman
6. Establish approach for incorporation of risk-informed and performance based principles into ANS standards	RP3C/Prasad Kadambi
7. General	Steven Stamm

**SEE DETAILED STATUS BELOW:**

**Status reported by objective below in all CAPS.**

- Those **CLOSED** remain in black font.
- Those **believed to be completed** are in green font.
- Those that **remain open** are in red font.

**Actions Objective 1 (Standards Prioritization) / George Flanagan**

1. (July/August 2015): Launch Standards Priority Survey – SURVEY ISSUED / ACTION CLOSED
2. (September 2015): Draft executive summary of survey results; request input from consensus committee chairs. EXECUTIVE SUMMARY DRAFTED / ACTION CLOSED
3. (October 2015): Finalize Standards Priority Survey Executive Summary and provide to ANS Board of Directors. EXECUTIVE SUMMARY COMPLETED AND PROVIDED TO BOD WITH REPORTS SUBMITTED FOR NOVEMBER 2015 MEETING / ACTION CLOSED
4. (November 2015): Assign survey findings/recommendations to appropriate committees. FINDINGS AND RECOMMENDATIONS ASSIGNED / ACTION CLOSED
5. (June 2016): Responsible committee chairs report on status. ACTION CLOSED




Action Item	Description	Responsibility	Status/Comments /Reassignments
6.	(October 2016): Assess need and appropriate method(s) to seek current input on standards priorities. OPEN		
<b>Actions Objective 2 (ANS Professional Division (PD) Sponsorship Program) / Internal Communications</b>			
<b>Task Group</b>			
1.	(December 2015): Evaluate ANS PDs for appropriate match with consensus committees. NEED EVALUATED AND CONTACT MADE / CLOSED		
2.	(January 2016): Prepare and send sponsorship request letters to ANS PDs. ACTION IN WORKS / OPEN		
3.	(June 2016): Consensus committee representatives attend ANS PD meetings to roll out program. OPEN		
4.	(August 2016): Create PD Standards Review Committees (for maintenance of delinquent standards). OPEN		
5.	(October 2016): Evaluate progress (i.e., number of PD sponsorships established; number of standards reviewed). OPEN		
<b>Actions Objective 3 (ANS Standards Committee Training Program) / George Flanagan, Steven Stamm, and Pat Schroeder</b>			
1.	(August 2015): Finalize training presentations and post for Standards Committee member access. PRESENTATIONS FINALIZED AND POSTED / CLOSED		
2.	(November/December 2015): Enlist instructors for web-based training program. COMMITMENTS FROM INSTRUCTORS RECEIVED; SCHEDULE BEING PREPARED / CLOSED		
3.	(February 2016): Initiate series of web-based training presentations. CLOSED		
4.	(June 2016): Evaluate participation in webinars and appropriate next action. CLOSED		
<b>Actions Objective 4 (Standards Educational Module for Non-Standards Developers</b>			
<b>Responsibility: External Communications Task Group</b>			
1.	(November 2015): Create Standards Education Task Group to determine platform (webinar and/or technical session) to educate non-Standards Committee members about standards. Assigned to ECTG & CLOSED		
2.	(January 2016): Initiate discussions with PDs on possibility of hosting standards educational technical session at November 2016 meeting. BOD PREFERS WEBINAR FORMAT – N/A		
3.	(February 2016): Develop educational module/presentation and recruit instructor(s). Partially completed		
4.	(April 2016): Standards Education Task Group submits platform recommendation and draft module/presentation to the SB for review and approval. Completed		
5.	(May 2016): Educational module/presentation finalized. Completed		
6.	(June 2016): Launch web-based standards education program – if decision made to launch web-based program. OPEN		
7.	(July 2016): Evaluate participation and input from web-based standards education program – if decision made to launch web-based program. OPEN		
8.	(November 2016): Hold standards educational technical session – if PD sponsors technical sessions. BOD PREFERS WEBINAR / N/A		
<b>Actions Objective 5 (Progress High Priority Standards)</b>			
<b>Responsibility: George Flanagan as RARCC Chair for Mark Linn (for ANS-301.) and Amir Afzali (for ANS-30.2)</b>			
1.	ANS-30.1, “Risk-Informed and Performance-Based Nuclear Power Plant Design Process”		
a.	(October 2015): Form ANS-30.1 Working Group. WORKING GROUP FORMED / CLOSED		
b.	(June 2016): Complete initial draft for working group and subcommittee review. AN INITIAL DRAFT WAS COMPLETED / CLOSED		
c.	(June 2017): Finalize draft for first consensus committee review. OPEN		
2.	ANS-30.2, “Categorization and Classification of Structures, Systems, and Components for New Nuclear Power Plants”		
a.	(October 2015): Form ANS-30.2 Working Group. WORKING GROUP FORMED / CLOSED		
b.	((November 2015): Hold initial working group meeting. MEETING HELD DURING NOVEMBER 2015 MEETING / CLOSED		

Action Item	Description	Responsibility	Status/Comments /Reassignments
<p>c. (June 2016): Submit recommended approach to consensus committee. OPEN  d. (June 2016): Complete first draft for working group review. OPEN</p>			
<p><b>Actions Objective 6 (Establish approach for incorporation of risk-informed and performance based principles into ANS standards)</b></p>			
<p><b>Responsibility: RP3C Chair Prasad Kadambi</b></p>			
<p>1. (October 2015): Identify pilot program and approach. PILOT IDENTIFIED AS INTEGRATED PACKAGE ON ANS-30.1, ANS-30.2, BEYOND DESIGN BASIS EVENT(BDBE), AND STANDARDS APPLICATION PLATFORM / CLOSED  2. (November 2016): Provide summary of lessons learned from pilot program. OPEN  3. (June 2017): Incorporate lessons learned into the Risk-Informed and Performance Based Plan. OPEN</p>			
<p><b>Actions – General</b></p>			
<p><b>Responsibility: Steven Stamm</b></p>			
<p>1. (October 2015): Draft five-year Standards Strategic Plan. DRAFT PREPARED / CLOSED  2. (May 2016): Finalize Standards Strategic Plan and provide to ANS Board of Directors. CLOSED  3. (October 2016): Update Part A Plan, Part B, Executive and Results, and Part C, Self-Assessment and Narrative before each national meeting and provide to the Planning Committee. ON-GOING  4. (October 2016) Complete evaluation of top ten recommendations from standard including action items and schedules. CLOSED</p>			
11/2015-18	Consensus committee chairs to review the NRC database and to provide any missing information/incorrect information to Pat Schroeder by January 31, 2016. Chairs will need to review two tables – one for “ANS” and the other for “ANSI/ANS.” (Database accessible at <a href="http://www.nrc.gov/about-nrc/regulatory/standards-dev/consensus.html">http://www.nrc.gov/about-nrc/regulatory/standards-dev/consensus.html</a> )	Consensus committee chairs	CLOSED  Information submitted to NRC 10/31/16.
11/2015-19	Pat Schroeder to combine the information from consensus committee chair and to send missing/incorrect information on ANS standards referenced in the NRC standards database to Carol Moyer at NRC.	Pat Schroeder	CLOSED  Information submitted to NRC 10/31/16.
11/2015-21	The LLWRCC to approve a PINS for a cybersecurity standard and forward to the standards manager. <b>DUE DATE: June 1, 2017</b>	Gene Carpenter	<b>OPEN</b>  PINS in development
11/2015-25 #0109	Steven Stamm to revisit an ANS ITAAC standard in a year.	Steven Stamm	CLOSED  Updated evaluation emailed to members 9/6/16 in advance of discussion at November 2016 meeting. Evaluation included in meeting materials packet.
11/2015-32 #0100	Steven Stamm to talk to John Bess / Aerospace Nuclear Science and Technology Division to get more information about what standards are needed so that a determination could be made whether there is an opportunity for ANS to support.	Steven Stamm	CLOSED  Discussion not held at June or November 2016 Aerospace Nuclear Science & Tech PD meeting. Members agreed to close and reopen if division approaches the SB.






Action Item	Description	Responsibility	Status/Comments /Reassignments
11/2015-33 #0099	Andrew Sowder to look into EPRI and ASME active working groups regarding the topic of buried piping and report to the Standard Board if there is any area in which an ANS standard could be developed.	Andrew Sowder	<b>CLOSED</b> Interest in a standard on buried piping was found and the project was assigned to the LLWRCC.
11/2015-34 #0098	Prasad Kadambi and Ed Wallace to have a conference call by 11/30/2015 to develop responses to the ANS-30.1 questions submitted to RP3C and respond to the Working Group.	Prasad Kadambi, Ed Wallace	<b>CLOSED</b> Provided but WG does not feel sufficient.
11/2015-35 #0096	Prasad Kadambi to work with Pat Schroeder to develop the ANS Standards Application Platform using the ANS Standards Committee Workspace by the June 2016 meeting.	Prasad Kadambi Pat Schroeder	<b>CLOSED</b> SB motion terminated this activity.
11/2015-36 #0095	Prasad Kadambi to provide the white paper to the consensus committees by June 2016. (Guidance how ANS standards should address BDBE.)	Prasad Kadambi	<b>CLOSED</b>
11/2015-37 #0094	RP3C to provide all consensus committees the safety case design for review by the June 2016 meeting.	Prasad Kadambi/ RP3C	<b>CLOSED</b>
11/2015-45 #0078	Donald Eggett to submit response to inquiry on ANS-55.1-55.6. <b>DUE DATE: PAST DUE—NEED ASAP</b>	Donald Eggett	<b>OPEN</b> Draft response provided to SB Chair & Vice Chair for review. Vice Chair provided suggestion. D. Eggett incorporating suggestion.
6/2015-16 #0061 #0062	Steven Stamm and Gene Carpenter to review the NEA white paper on DID issued in December 2015, formulate a plan for the ANS approach, and reflect this in a revised white paper draft developed under Action Item 6/2014-08.	Steven Stamm, Gene Carpenter	<b>CLOSED</b> To be addressed in ANS-30.1; also to be addressed by the licensing modernization project.
11/2014-07	Pat Schroeder to send a broadcast to student section members on getting involved in standards every other year – next time to be July 2016. <b>DUE DATE: September 15, 2018</b>	Pat Schroeder	<b>On-going</b> Broadcast issued 9/15/16 ( <a href="#">link to broadcast</a> ) Next broadcast to be issued 9/15/18)
11/2014-08	Pat Schroeder to create a similar solicitation broadcast to the YMG and NA-YGN. <b>DUE DATE: September 15, 2017</b>	Pat Schroeder	<b>On-going</b> (Next broadcast 9/15/2017)  NOTE: YMG holding panel session on ANS standards at ANS November 2016 meeting.




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<b>Goal #1 Align Standards Development Pories with Current and Emerging Needs</b>				
A. Evaluate the results of the initial industry priority survey	Standards Mgr	Executive Summary issued	1/2016	1/2016
B. Assign responsibilities to the appropriate consensus committees to address the top ten survey identified high priority standards	Standards Mgr	Issue list of high priority standards with assigned responsibilities. List discussed during 2/12/2016 conference call and published in minutes	2/29/2016	2/29/2016
C. Develop and implement an approach to collect industry priority needs on an ongoing basis and integrate them into standards committee priorities.	External Communications TG Chair	ANS SC Policy drafted to specify this approach and approved by SB	2/1/2017	
D. Incorporate risk-informed and performance-based methods in ANS standards, where appropriate, by: <ol style="list-style-type: none"> <li>1. Developing and demonstrating the Standard Application Platform (SAP) approach on at least one standard as a pilot effort</li> <li>2. Incorporating the pilot approach and lessons learned from the approach into the Risk-Informed and Performance-Based Plan</li> <li>3. Publishing a Nuclear News Article to inform other members of the Society of the benefits of this risk-informed and performance-based effort</li> <li>4. Developing presentation materials that can be used to inform other industry groups as to the benefits and use of the ANS Standards Committee risk-informed and</li> </ol>	RP3C Chair	SB approval of pilot SAP program	6/2015	6/2015
	RP3C Chair	Pilot test standard Issued for CC ballot	11/1/2016	
	RP3C Chair	Incorporate approach and lessons learned into RP3C Plan and obtain approval by SB	6/1/2017	
	RP3C Chair	Nuclear News Article drafted, approved by SB Chair and forwarded to NN editor.	4/2/2017	
RP3C Chair	Draft presentation received by SB chair.	4/2/2017		




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performance based standards activities	RP3C Chair	SB chair approval of presentation.	3/1/2018	
	RP3C Chair	Contact appropriate organizations to make presentations at NRC RIC, ANS UWC and Owner's groups	3/1/2018	
	RP3C Chair	Make presentations at a minimum of 2 groups	3/1/2018	
<b>Goal #2: Develop and Maintain High Quality Standards</b>				
A. Enhance the relationships with the ANS Professional Divisions and Technical Groups to assist in populating WGs with expert individuals. (also supports Goal 5)	Internal Communications TG Chair	Issue interface liaisons table between applicable divisions and group and the Standards consensus committees.	8/1/2016	6/1/2016
	CC Chairs	Send requests for staffing assistance to ANS Professional Divisions and Technical Groups as needed.	Ongoing	
	Internal Communications TG Chair	Tabulate the summary of the requests made and the results and present to Standards Board.	11/1/2016 (@ SB Meeting) 8/1/2017 Feedback not provided. Remains open.	
B. Develop and Implement a standards training program for all Standards Committee members to ensure that standards development is consistent with current	Internal Communications TG Chair	Develop initial presentations and post on Workspace	3/1/2016	3/1/2016




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policies and procedures, thus, producing consistently better quality products in a timelier manner.	SB VChair	Assign training instructors	3/1/2016	3/1/2016
	SB VChair	Prepare Training Plan	2/1/2016	2/1/2016
	Standards Mgr	Send out training notices	3/15/2016	3/15/2016
	Standards Mgr	Complete the initial rounds of training presentations	6/2/2016	6/2/2016
	SB VChair	Select videos for use in future training presentations	6/2/2016	6/2/2016
C. Assign a mentor to each new standards working group that is experienced in the use of ANS standard's procedures, policies, glossary and tool kit	CC Chair	Evaluate SubC Chairs for familiarity with toolkit/standards development	5/1/17 Action Item 11/2016-X was created at Stamm's suggestion for CC Chairs to speak/meet with their subcommittee chairs to ensure they are aware of toolkit/process.	
	CC Chair	Select SubC chairs and other CC members with respect to their being well versed in toolkit contents and capable of being mentors. Provide mentor list to SB VChair	5/1/17	




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	CC Chair	In cases, where additional assistance is required beyond the SubC Chair, CC should request mentor from SB VChair.	6/1/17 Ongoing	
<b>Goal #3: Improve Standards Development Production and Efficiency</b>				
A. Expedite development of high-priority standards by improving Standards Board and consensus committee oversight using achievable project plans and definitive schedules with assigned milestones throughout the standards development cycle.	SB VChair	Draft Project Plan development policy	10/1/2016	Approved by SB 9/6/16. Project plan w/b added to CC procedures as Appendix K.
	SB VChair	Project Plan development Policy approved by SB	12/1/2016	
	CC Chairs	Develop Project Plans for 6 standards and submit to consensus committees	6/1/2017	open
B. Complete the Standards Volunteer Database to facilitate recruiting personnel for Standards Committee activities (also supports Goal #5)	ANS IT Dept.	ANS IT complete ANS SC Volunteer Data Base in accordance with the SB specification	11/1/2017	
	ANS IT Dept.	SB Approves data base submitted by ANS IT department	2/1/2018	




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C. Assist the consensus committees in obtaining required human resources using outreach initiatives	Standards Mgr	Develop Staffing Approach guideline and post to website toolkit.	12/1/2016	Completed by S. Stamm and posted to the toolkit on 8/22/16 <a href="#">here</a> .
D. Maximize use of the ANS Standards Workspace and other communications vehicles to eliminate the need for travel and face-to-face meetings to the maximum extent possible	CC Chairs	Encourage WGs and SubCs to use Workspace and other online and electronic tools to eliminate face-to-face meetings	Ongoing	open
	CC Chairs	CC chairs to submit a report regarding the reduction in face to face WG and SubC meetings.	5/1/2017	open
E. Acquire funding (e.g., grants) to support the development of high-priority standards on an expedited basis.	CC Chairs/ Priority TG Chair	High-priority standards list submitted by all CCs which identifies high-priority standards planned for near future. Priorities should be based on expected government need.	11/1/2016	Changed to ongoing
	SB VChair	Work with CCs to assess each effort, select most appropriate standards, prepared and submit proposals. Submit 1 <sup>st</sup> proposal.	6/1/2017	
F. Streamline the reaffirmation process to reduce the number of delinquent standards by establishing a systematic review of delinquent standards to start no later than the 4-year mark. This can be accomplished through the following mechanisms: 1. Automatically sending out a Reaffirmation Form to the WG chair with copies to subcommittee chair and consensus committee chair	Standards Mgr	Submit reaffirmation forms to WG/SubC chairs for all standards approaching the 4 year mark.	Ongoing starting 4/1/2016	Ongoing
	Standards Mgr	Issue list of all standards over 4 year since issuance showing the issuance of Reaffirmation Forms to the WG, SubC, and CC chairs as well as the SB on a quarterly basis.	11/1/2016	Ongoing Report and generic reaffirmation form issued 9/15/16 for all standards >4years old to WGCs, SubCs, and Maintenance Coordinators with CC Chairs on copy.

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

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Key: Completed  Near Term  Overdue 				
2. Automate subcommittee and consensus committee approvals of reaffirmation, withdrawal, and revision recommendations 3. Establishing an ANS Professional Division and Technical Group sponsorship program to aid in review of associated delinquent standards with and without active working groups	Standards Mgr	Action items/reminders for reaffirmation (i.e., list of delinquent standards) to be distributed quarterly.	Ongoing	The report was sent 9/15/16 and will be updated and resent 12/15/16.
	Internal Communications TG Chair	Issue plan and approach to each Professional Division and Technical Group as applicable and obtain indication of acceptance.	11/10/2016	Changed to done!
G. Develop subcommittee/consensus committee metrics to identify opportunities for improvements	Policy TG Chair	Identify CC metrics, review with CC Chairs	10/1/2016	Done! Teleconference held 9/28/16 to discuss proposed metrics.
	CC Chairs	Each CC fill in annual tabulated metric performance	5/1/2017	
	Policy TG Chair	Evaluate metric results	6/1/2017	
	CC Chair & Policy TG Chair	Provide recommendations for changes to improve performance	6/1/2017	

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<b>Goal #4: Expand ANS Awareness and External Outreach</b>				
A. Use periodic survey methods to gain feedback from industry, federal and state agencies; provide feedback to survey responders	SB VChair	Submit draft of survey comment responses to SB Chair for approval	8/1/2016	7/26/2016
	SB Chair	Send responses to commenters	10/1/2016	
	External Communications TG Chair	Determine survey frequency for future ANS and industry surveys.	10/1/2016	Not done due to chair resignation.
B. Establish periodic leadership meetings with regulatory agencies, owner's groups and industry executives to align needs, and build support for development and greater use	External Communications TG Chair	Discuss communications approach with each of the applicable organizations (industry, federal and state agencies)	Ongoing  To be discussed @ NRC Std Forum	
	External Communications TG Chair	Develop and issue master SC external communications plan	5/1/2017	
C. Establish an ANS Professional Division sponsorship program to broaden input in setting standards priority	Internal Communications TG Chair	Issue plan and approach to each Professional Division and Technical Group as applicable and obtain indication of acceptance.	10/1/2016	In works
D. Seek liaison arrangements with relevant SDOs, where needed, to improve efficiency, effectiveness and consistency	External Communications TG Chair	Prepare a liaison list identifying each desired liaison interface, the liaison approach and the implementation status.	10/1/2016	






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of standards across the industry where overlapping or interlocutory standards arise	External Communications TG Chair	Implement all liaisons on the Liaison Interface List.	10/1/2016	
E. Establish an approach to keep industry and trade groups advised of approved standards and in-progress standards in their areas of interest	External Communications TG Chair	Issue an Industry and Trade Group Interface Plan.	10/1/2016 NRC Std Forum may support this interface.	
	External Communications TG Chair	Complete plan implementation	6/1/2018	
F. Identify key international organizations that can contribute to specific ANS standards development projects, including work group participation, review of draft standards, and providing input into standards prioritization.	External Communications TG Chair	Develop listing of key international organization, key contacts and the desired interfaces we would like to develop.	6/1/2017	
	External Communications TG Chair	Send invitation letter to each of the interface contacts. Follow-up as needed	10/1/2017	
	External Communications TG Chair	Provide completion report to SB.	10/1/2018	
G. Establish a standards educational program for non-Standards Committee members to increase their knowledge of: 1. what consensus standards are, and are not;	External Communications TG Chair	Develop presentation package	6/1/2016	6/1/2016
	External Communications	Develop invitation list for indoctrination sessions	8/1/2016	To work with ANS Membership Director to




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2. benefit of consensus standards to the industry; 3. advantages to companies, federal and state agencies, and individuals of supporting standards development	TG Chair			offer to ANS members.
	External Communications TG Chair	Send indoctrination session invitations	10/1/2016	
	External Communications TG Chair	Conduct 1 <sup>st</sup> indoctrination session	2/1/2017	
	External Communications TG Chair	Complete sessions	11/1/2017	
H. Contact leading nuclear companies to determine if they issue regular newsletters and offer to provide standards updates for inclusion.	External Communications TG Chair	Develop list of companies and contacts	11/1/2016	
	External Communications TG Chair	Develop short form newsletter.	11/1/2016	
	External Communications TG Chair	Make contact with 30% and report to SB	4/1/2017	
	External Communications TG Chair	Make contact with 100% and report to SB	11/1/2017	
I. Evaluate the cost effectiveness of a fee based training program for newly issued/	SB VChair	Prepare draft evaluation plan.	8/1/2016	7/26/2016

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revised standards.	SB VChair	Meet with ANS Membership & Marketing Director and revise plan as appropriate.	8/3/2016	Several calls held with ANS M&M Director, last one on 10/5/16.
	SB VChair	Complete evaluation and send report to SB Chair for discussion with BOD.	3/1/2017	
<b>Goal #5: Improve Industry Representation and Sustainability of Working Groups, Subcommittees, and Consensus Committees</b>				
A. Approach owners' groups and industry organizations soliciting member participation in ANS standards	Standards Mgr	Send Owners Groups semi-annual updates on applicable standards activities	Ongoing	Industry newsletter created and provided to Jim Riley as POC for utilities on 10/18/16. Industry newsletter posted <a href="#">here</a> .
	Standards Mgr	Request staffing assistance for select standards	Ongoing	An updated list of volunteer needs was prepared and posted to the ANS website 8-11/16, announced in Sept. 2016 N&D and distributed through ANS Collaborate to PDs.
B. Send notices to ANS Student Section members, Young Member Group, Professional Division members, and North American-Young Generation Nuclear members to provide opportunities to				
	Standards Mgr	Send notices biannually	Ongoing Biannually	Broadcast sent to ANS Student Section 9/15/16.

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participate in ANS standards				
C. Enhance the relationships with the ANS Professional Divisions and Technical Groups to assist in populating WGs with expert individuals.(See Goal #1)		(See Goal #1)		
D. Advertise upcoming standards efforts with requests for support using <i>Nuclear News</i> , Nuclear Café, and ANS Linked-In Group	Standards Mgr	Advertise upcoming standards efforts with requests for support using <i>Nuclear News</i> , Nuclear Café, and ANS Linked-In Group	Ongoing	Volunteer needs section added to <i>Nuclear News</i> . List of volunteer needs updated and posted to web and announced in N&D.
E. ANS IT Department to complete the Standards Volunteer Database, and make it available to subcommittee and consensus committee chairs (See Goal #3)		(See Goal #3)		
F. Monitor consensus committee and working group success in staffing and recruitment and share best practices across all consensus committees	SB VChair	Develop standards report and provide to CC chairs.	12/1/16	
	CC Chairs	Submit semi-annual report using format provided	12/1/16+ Ongoing	
	SB VChair	Evaluate results of CC reports at SB meeting	6/30/2017+ Ongoing	