

**American Nuclear Society
NFSC November Meeting Minutes
November 17, 2003 * New Orleans, LA**

Members Present

Donald J. Spellman, *NFSC Chair, Oak Ridge National Laboratory*
Cara Ford, *Standards Administrator, American Nuclear Society*
Mary Beth Gardner, *American Nuclear Society*
R. H. Bryan, Jr., *Tennessee Valley Authority*
Michael T. Cross, *Westinghouse Electric Company*
Tim Dennis, *Individual*
Donald R. Eggett, *AES Engineering*
Rick A. Hill, *GE Nuclear Energy*
N. Prasad Kadambi, *US Nuclear Regulatory Commission*
Jesse E. Love, *Bechtel Power Corporation*
James F. Mallay, *Framatome ANP*
Robert McFetridge, *Westinghouse Electric Company LLC*
Frederic Pineau, *Knolls Atomic Power Laboratory*
William B. Reuland, *Individual (Previous Affiliation: EPRI)*
Michael Ruby, *Rochester Gas and Electric Company*
James C. Saldarini, *Tetra Tech FW, Inc.*
C.D. Thomas, Jr., *Individual (Previous affiliation: Yankee Atomic Company)*
Andy Wehrenberg, *Southern Nuclear Operating Company*

Members Absent

Thomas Luke, *Exelon Nuclear*
C.K. Brown, *Southern Nuclear Operating Company*
Harish Chander, *US Department of Energy*
John Dewes, *Westinghouse Savannah River Company*
Charles H. Moseley, Jr., *BWXT Y-12*
Jean Savy, *Lawrence Livermore National Laboratory*
Robert E. Scott, *Scott Enterprises*
Steve L. Stamm, *Stone and Webster, Inc.*
John D. Stevenson, *J.D. Stevenson Consultants*
Michael J. Wright, *Grand Gulf Nuclear Station, Entergy Operations, Inc.*

The NFSC Agenda was modified to allow a standards discussion prior to the official meeting. In the future, we will try to reserve 8 to 10 a.m. for standards or procedures/policy discussions prior to the start of the official meeting.

Prasad Kadambi was selected to talk about the issue of performance-based standards and ANS 2.26. He noted that ANS 2.26 was the baseline for developing the methodology for performance-based and risk-based revisions and development of new ANS standards. He is working with the ANS 2.26 writing group to incorporate the methodology.

Three issues were discussed about how to make ANS standards performance-based:

1. How do you know you have compliance?
2. How do you make it safe?
3. The Regulator and the Utilities must communicate.

Prasad has written an Appendix C to ANS 2.26 which describes how the standard will be performance-based. He has worked this through Drew Persinko who is the NRC NMSS member on ANS 2.26.

Action Item 11/03-01: Cara Ford will send a copy of Appendix C to all committee members. Anyone who would like a copy of Dr. Truback's paper should notify Prasad or Cara. Due Date: January 31, 2004

Don Spellman noted that all subcommittee chairs should make sure they have copies of all approved and draft standards that belong to their subcommittee. Please contact Cara Ford if you need a copy e-mailed to you.

Action Item 11/03-02: Prasad will write an article for ANS Standards News and possibly for Nuclear News regarding the change in philosophy at NFSC. Due Date: March 31, 2004.

A need was defined to promote the fact that NFSC had decided to make the change from totally prescriptive standards to those that are performance-based and risk-based. Jim Mallay will discuss this with the ANS Board later in the week.

Action Item 11/03-03: February is the deadline for the June ANS meeting organization. Need to form a panel on the discussion of performance-based standards. Jim Mallay will coordinate words for Don Eggett to present to the Power Division this week as an application for a technical session/panel. Due Date: November 20, 2003.

Action Item 11/03-04: Jim Saldarini will need to determine the appropriate places in the NFSC Policies and Procedures where this change should appear. Due Date: December 31, 2003. Also, Prasad Kadambi will develop an NFSC Guidance Document that will be able to be used with the NFSC Tool Kit as guidance for standards writing groups. Due Date: March 31, 2004.

Based on this major change in NFSC policy, the following action items were added.

Action Item 11/03-05: This leads to determination that liaison with the Nuclear

Energy Institute (NEI) will be critical to the acceptance of this policy by the nuclear utilities. Jim Mallay agreed to contact Marvin Fertell of NEI to see if someone from NEI would be the liaison to NFSC to help coordinate this policy change with the utilities. Due Date: January 31, 2004.

Action Item 11/03-06: NFSC Members and Subcommittee Chairs will review NFSC standards and advise Prasad of any standards that appear to be overly prescriptive and should be revised. Prasad will also review applicable NewRegs that may be referenced in NFSC standards which drive this prescriptive philosophy in standards. Prasad will report his findings at the June NFSC meeting.

Action Item 11/03-07: NFSC Chair will write letters to NRC Office of NRR and NEI discussing the issue and how it should be supported by them (coordinate with Jim Mallay's effort with NEI). Due Date: March 31, 2004.

The NFSC Chair opened the regular meeting at about 10 a.m. Minutes from June 2003. Don Spellman motioned to approve, Rick Hill seconded motion for approval. June 2003 minutes approved.

Executive Committee Report: Don Spellman - The ExC met by telecon on Sept 4, 2003. The ExC welcomed Evan Lloyd who will be co-chairing ANS 26 with Charlie Brown so Charlie can have more time to pursue Emergency Preparedness standards work with the Department of Homeland Security. Status reports of standards were given by each of the attending SC chairs. The most important issue discussed was for SC chairs to get an accurate list of all the people who are working in any way with their subcommittee so Suriya can finish the active members list before she departs ANS. This list is critical for the determination of where writing group members are most needed.

Chair's Report: Don Spellman - Discussed the revolutionary path forward that NFSC is about to take and the benefit it will provide to the standards industry. It will take considerable effort from each member of the NFSC and/or the Subcommittees to get this accomplished. Don Spellman asked the members to think about whether one or two more NFSC meetings would be needed in the next year or so to ensure this policy gets off the ground and is acceptable to ANS, ANSI, NRC, etc.

Action Item 11/03-08: Cara Ford will work toward the update and completion of volunteer list. Will contact chairs and ask them to provide list of volunteers on their committees. Due Date: March 31, 2004.

We also welcomed Carl Mazzola as the new chair of ANS 25, Evan Lloyd as the new co-chair of ANS 26, and Fred Pineau as the new chair of ANS 27.

Secretary's Report: Cara Ford - Cara introduced herself and told the committee a little about her background and her enthusiasm and willingness to perform the duties that were expected of her. A warm welcome was extended by all members of the committee.

Standard Coordinators Report: Tom Luke - Just prior to the meeting, Tom notified the NFSC Chair that he no longer had the support of his new organization at Exelon to participate in the NFSC work and that ComEd would appoint a new person to replace him. (Later, Don Spellman had a discussion with one of the VPs at Exelon, Mr. Bill Naughton, who thought that Exelon had not acted properly and that some type of transition should be provided for Tom since he held an important position in NFSC. Don passed this information to Tom and we will see what develops). The Standards Coordinators Report was not available.

Tim Dennis noted that ANSI will drop their style guide and is changing procedures. Our tool kit corresponds with the ANSI style guide. Mary Beth Gardner mentioned that the cost of the upcoming ANSI audit will be \$7-10,000, raising the concern that we need to think about ways to get something back from ANSI.

Action Item 11/03-9: Don Spellman created a special subcommittee to evaluate the responsibilities of ANSI to ANS. Mary Beth Gardner will chair the committee. Jim Mallay and Rick Hill will have information at the June meeting in Pittsburgh. Due Date: discuss at the executive committee teleconference in February.

Subcommittee Reports

ANS 21: Mike Ruby - The course of action with ANS 4.5 is still undecided. IEEE has gone ahead with IEEE 497, but is a slightly different scope than ANS 4.5. Also, need a resolution on placement of ANS 2.26 standard in either SC ANS 21 or ANS 25. The NFSC Chair will review the issue and promulgate a decision within two weeks (done). Mike also reported that ANS 3.2 was near completion and he planned to ballot the standard before the June meeting. This standard will be placed on the Agenda for the June meeting standards discussion.

ANS 22: Rick Hill - Rick noted that work was proceeding on ANS 51.1 and 52.1 and the working group will meet this week. He also noted that he had several international people on the working group but only a few US people. Would like more US people but must have an NRC rep on both working groups. Germany is particularly interested in these standards. It was decided at the meeting to let the reaffirmation of ANS 58.14 die as this standard will be withdrawn and its elements incorporated into ANS 51.1 and 52.1. Also, the revised 10CFR50.69 has changed the classes of SSCs somewhat, which will affect these standards.

Right now, 50.69 is voluntary and utilities must determine if its use will be cost-beneficial or not. NRC wants to use the PRA methodology and 50.69 with 4 box structures for SR/NSR/SS/NSS systems, structures and components (SSCs). Rick feels that he can combine the attributes of both Performance-Based and Risk-Informed methodologies into the standards. ANS 22 work will be used to support the NRC in making the culture change to PB/RI methods. The question to the committee was "How do you encourage the utilities to embrace this culture change. Discussion continued and it was mentioned that certainly NEI would be the place to work the issue. Bob Bryant will work with NEI to see if this culture change will be accepted and promoted.

Action Item 11/03-10: Bob Bryant contact NEI and discuss the methods for NFSC to get a discussion on the philosophy of PR/RI in front of the US utilities and obtain their feedback and support. Due Date: January 31, 2004 (E-mail report to NFSC).

This philosophy could lead to new plant designs, which would decrease cost and risk. The committee decided to continue to support the move to revise/develop standards that are Risk-Informed and Performance-Based with the understanding that in appropriate cases, prescriptive instructions are needed to meet the requirements of some standards.

Action Item 11/03-11: Rick Hill will write a Program Plan for the revisions to ANS 51.1 and 52.1 which will include a new Table of Contents and Outline for each standard. Due Date - January 31, 2004. (Program Plan to NFSC Secretary)

ANS-23: Don Eggett - The incorporation of ANS 3.8.9 into ANS 3.12.1 and 3.12.2 should be ready for ballot by June. These standards will also be placed on the June standards discussion agenda.

Action Item 11/03-12: Cara Ford will find PIN form for ANS 41.3 and send to Don Eggett

ANS-24: Andy Wehrenberg - Andy provided a status of the standards in ANS 24 and noted that Carl Beyer had assumed chair of the working group for ANS 5.4, that DOE Handbook 3009 had some information pertinent to ANS 5.10 which would be evaluated for inclusion in ANS 5.10. (Person to contact is Rick Serbu, DOE/EH, Standards Program Manager, at 301-903-2856), and that ANS 56.4, 56.10, 56.11, and 58.2 still need chairs and working group members. ANS HQ will assist with filling these vacancies.

ANS-25: Carl Mazzola - Carl gave a status of the ANS 25 standards with the best information he has since recently assuming the position of SC chair of ANS-25. Most of the standards are working but a few issues exist. Carl needs to look at ANS 2.1 in particular for a Performance-Based approach based on the Reg Guides. ANS 2.2 should have a 2003 date on it. Mr. Alan Weber is the WG chair

of ANS 2.3. Still need WG chairs for ANS 2.8, 2.9, 2.17, 2.25, and 40.21. ANS 3.11 should be ready in draft by April 2004 and may be a good candidate for discussion at the June meeting. ANS 2.10 and 2.13, 18.5 and 2.26 should be added to the list for ANS 25.

ANS-26: Evan Lloyd - This subcommittee is the one that is going to have the most focus in the near future due to the issues with Homeland Security and the high level of need for standards for Emergency Preparedness. All of the standards in ANS 26 are possible candidates for Performance-Based standards. ANS HQ will work with Evan to ensure that enough volunteers are available to get these standards working again.

ANS-27: Fred Pineau - Fred reported that standards 57.2 and 57.3 are near completion. Last issues to resolve and send them to ANSI for approval and ANS publication. Standards 57.7, 57.9, and 57.10 should be ready to discuss at the June meeting. ANS 57.8 is ready for reaffirmation. Cara will assist Fred with the necessary paperwork to complete the reaffirmation.

Action Item 11/03-13: Cara Ford to prepare ANS 57.8 for reaffirmation by NFSC. Due Date: January 31, 2004.

ANS-28: Malcolm LaBar - A short discussion of the goals of the newly formed ANS 28 was held. Malcolm was not able to be present at Monday's NFSC meeting but will chair a special subcommittee meeting on Wednesday.

The subcommittee reports were interrupted between ANS 22 and ANS 23 reports to hear from Mr. Ross Radel, Chair of the ANS Student Council regarding their activities and possible support for ANS standards work. The council will hold its annual conference in April 2004 in Madison, WI, and would like to invite an NFSC participant to attend and give a presentation on the ANS Standards Committee. This will be taken up with the Standards Board and a volunteer sought.

The committee next heard from **Bill Reuland** regarding his assignment with Mike Wright to review the time line for approval of a new or revised standard and look for areas where the time line could be improved. Bill's report is attached in Attachment 1. A good discussion ensued which found several ways that could be helpful. Bill and his special committee will review the input from the NFSC and make a final recommendation for changes in the standards maintenance process at the June 2004 meeting. Any pressing changes should be brought to the attention of Jim Saldarini who is working on a revision to the NFSC Policies and Procedures. The final report may take the form of an NFSC Guidance Document to discuss the finer details of the revised process which goes beyond the information that is in the Policies and Procedures but would be a useful document for the NFSC Toolkit.

Action Item 11/03-14: The milestone for completion of this task is to develop and obtain NFSC approval of an NFSC Guidance Document related to the timing of standards revision and development and recommendations for improvement. Due Date, 12/31/04.

Jim Saldarini next reviewed his status of revision to the NFSC Policies and Procedures. Jim requested that everyone complete their comments on the policies and procedures by 12/31/03 so he can produce the official draft for NFSC approval by February 2004 and send it out in time for receipt of comments and discussion at the June 2004 NFSC meeting.

Meeting adjourned at the end of this agenda item.

Minutes submitted by Cara Ford, ANS Standards Administrator