

Members Present

N. Prasad Kadambi, *Chair, NRC*
James F. Mallay, *Vice Chair, Individual*
Patricia Schroeder, *Standards Administrator, American Nuclear Society*
Dimitrios Cokinos, *Member at Large, BNL*
Peter S. Hastings, *Member at Large, Duke Energy*
Calvin M. Hopper, *N16 Chair, Oak Ridge National Laboratory*
Tawfik M. Raby, *N17 Chair, NIST*
R. Michael Ruby, *Member at Large, Constellation*
Donald J. Spellman, *NFSC Chair, ORNL*
R. Michael Westfall, *Member at Large, Oak Ridge National Laboratory*
Michael J. Wright, *Member at Large, Entergy*

Members Absent

Robert Bari, *RISC Chair, Brookhaven National Laboratory*
Stephen Shepherd, *South Edison Company/SONGS*
Steven Stamm, *Member at Large, Stone and Webster*

Guests

Harry Farrar IV, *NTAG Chair*
Harry Felsher, *NRC*
William Reuland, *Individual*

1. Call to Order

Prasad Kadambi called the meeting to order and introductions were made.

2. Approve Agenda

The agenda was approved as submitted.

3. Approval of Meeting Minutes from June 7, 2005, San Diego, CA

The minutes were approved without dissent.

4. NTAG Update

Harry Farrar, NTAG Chair, addressed the Board. He explained NTAG is the Nuclear Technical Advisory Group to ANSI. It coordinates the review and balloting of international nuclear standards and assists TC-85 of ISO in the selection of subcommittee and working group members. ASTM received a contract from ANSI to become the administrative secretariat for NTAG. The Department of Energy (DOE), U.S. Nuclear Regulatory Commission (NRC), the National Institute of Standards and Technology (NIST), and several industry organizations provided funds for the administration of NTAG.

NTAG recently filled or reappointed personnel for 11 positions. Several Standards Board members serve on NTAG. These members include Mike Westfall as vice chair, Don Spellman as secretary, and Calvin Hopper as SC5 chair. Farrar asked the Board to identify more experts for NTAG.

Recently submitted NWIPS on emergency planning, siting, and seismic design were not approved by SC-6.

Prasad Kadambi asked Standards Board members for comments on NTAG participation. Spellman stated that communication within NTAG concerning voting is inadequate, and he is working with Fabienne Ramirez, who works at ASTM and handles the NTAG administrative work, to develop a more accurate contact list for NTAG members.

Farrar informed the Board that Jean-Louis Nigon has retired from TC-85, leaving it without a chair. The French secretariat for TC-85 must select a replacement.

Mike Westfall explained he became US coordinator/advisor for TC-85 in 1985. At the time, US participation was very weak. The United States hosted TC-85 in Albuquerque in 1996.

Tawfik Raby informed the Board the United States is the secretariat for SC-6 and will meet at the TC85 meeting in Ottawa June 2006, a week after the ANS meeting. Several working group meetings are also scheduled.

Kadambi thanked Farrar for his work on NTAG and providing the Board a report.

5. Action Items

See list of Action Items at end of minutes.

Harry Felsher recommended we work with the Young Members Group to establish a process for gaining young member participation in standards.

Action Item 11/05-01: Pat Schroeder to approach Young Members Group to gain young member participation in standards.
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6. Standards Board Chair's Report

Prasad Kadambi informed the Board of the approval being requested at Thursday's Board of Directors to allow the release of ANS standards for consideration by ISO as the basis for international standards. The statement submitted to the Board of Director was provided to the Standards Board along with background information. (Attachment A – BOD Statement & Background)

Kadambi requested that the Board revisit the matter of a Memorandum of Understanding (MOU) between NRC and ANS concerning standards. By way of background, he explained that such a MOU was signed by Jim Mallay and Guy Arlotto of the NRC in 1981. Some time back, Kadambi had approached the then NRC Standards Executive, Mike Mayfield, about renewing the MOU. Mayfield declined because he felt the MOU gave ANS special treatment. Mallay explained that the previous MOU provided a benefit to the NRC only and was a disadvantage to ANS. Other SDOs would not have wanted such an agreement. One provision of the MOU provided procedures for NRC to use draft standards without copyright/proprietary issues. Currently the NRC is in the process of issuing Reg. Guide 1.200 on PRA standards which may reference a draft of ANS-58.21. Kadambi presented to the Board a revised MOU that could be applicable to all Standard Developing Organizations (SDOs). The new MOU could be published in the *Federal Register* for consideration by any SDO if they wished to pursue a similar course of action as the ANS.

Mike Wright asked if a request for NRC endorsement of a standard required consensus committees to write a letter to the NRC Standards Executive. In the context of the MOU, Kadambi explained that such details must still be worked out. Mike Ruby asked if Part B of the MOU would slow down standards development process. Kadambi stated it should not change the way we currently work.

Peter Hastings asked why an approved standard could not be referenced in NRC rules. Kadambi explained that a rule is inflexible, and it could become an all or nothing issue. Mike Westfall asked how it helps to include Interim Staff Guidance (ISG) in the MOU. Kadambi explained the provision was written to be performance-based to give both SDOs and NRC flexibility. (Attachment B – Draft MOU)

7. Standards Board Vice Chair's Report

Jim Mallay informed the Board of the planned NRMCC meeting Wednesday, November 16, in Washington DC. The Nuclear Risk Management Coordinating Committee (NRMCC) coordinates risk informed standards for the nuclear industry. Currently there are seven standards involved. ANS is responsible for five of these standards. Grants were provided for ANS-58.21, "External Events in PRA Methodology," ANS-58.22, "Low Power Shutdown PRA Methodology," and ANS-58.23, "Standard on Methodology for Fire PRA." Grants are not expected for ANS-58.24, Level 2 PRA Standard, and ANS-58.25, Level 3 PRA Standard.

Action Item 11/05-02: Pat Schroeder to send Calvin Hopper electronic copies of RISC drafts.

8. Secretary's Report

Pat Schroeder stated there were no open clarifications, but two errata were in the works as a result of recent clarifications on ANS-18.1-1999, "Radioactive Source Term for Normal Operation of Light Water Reactors," and ANS-58.2-1988, "Design Basis for Protection of Light Water Nuclear Power Plants Against the Effects of Postulated Pipe Rupture."

The volunteer on-line database has not yet been completed due to an open position in the ANS IT Department.

Work has begun on the 2005 Standards Committee Report of Annual Activities. Reports have been requested of all working group chairs, subcommittee chairs, and consensus committee chairs.

Five reports were provided (Attachment C):

- 1) Standards Status Report
- 2) Delinquent Standards Report
- 3) Active Standards Report
- 4) Standards Sales Report
- 5) Staff Report

9. Consensus Committee Reports

N16

Calvin Hopper informed the Board of two new members to N16; Randy Shackelford (Nuclear Fuel Services, Inc.) and Larry Wetzal (BWX Technologies). Draft N16 procedures were developed similar to NFSC procedures and are currently out for review and comment with N16 members. (Attachment D – N16 Report)

N17

Tawfik Raby reported N17 approved two standards, three PINS, and currently has a revised standard at ballot. Dr. Robert Seale retired from the committee while three new members were added; Brian Grimes (individual), Nolan Hertel (Georgia Institute of Technology), and Ray Tsukimura (Aerotest Operations). (Attachment E – N17 Report)

NFSC

Don Spellman explained much discussion occurred on the nuclear safety criteria standards at yesterday's meeting. ANS-53.1 working group on gas cooled reactors is well on the way after getting over some big hurdles. The working group will meet November 16 and 17 in Washington DC. ANS-51.1/52.1 on PWR and BWR has been reinvigorated with new working group chairs and a new subcommittee chair. Spellman provided information about a proposal for a new standard to capture the common technical bases in the high-level safety criteria standards.

Action Item 11/05-03: Pat Schroeder to send Don Spellman ANS-50.1 draft and ballot comments.
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An Emergency Preparedness Ad Hoc Meeting was held on November 13 in Washington DC. With new working group chair, Trish Milligan from NRC, the 3.8 series standards are back on track. Revisions will begin and a core group is developing a plan.

The NFSC discussed NEI/IAEA documents issued as standards. It is the sentiment of the NFSC these documents should be termed technical reports or documents. Spellman is planning on discussing this situation at the June 2006 TC-85 Meeting.

The NFSC also discussed combining ANS-3.2 and NQA-1 into one quality assurance standard. The committee feels the industry would welcome one standard.

RISC

Jim Mallay reported for Bob Bari. Jim Mallay informed the Board the RISC Committee met on November 14 in Washington DC. RISC is currently balloting the revision to ANSI/ANS-58.21-2003, "External Events PRA Methodology." Additionally, RISC is balloting the release of this draft to NRC for reference in Reg. Guide 1.200. The ballot for ANS-58.22, LPSD closed a couple months ago. The working group is currently resolving about 300 comments. ANS-58.23, Fire PRA should ballot by the end of February 2006.

It was determined that the integrated requirements standard should be postponed until all four individual standards are published. The four standards include the three ANS standards previously mentioned and ANSI/AMSE-RA-S-2002, "Standard for Probabilistic Risk Assessment for Nuclear Power Plant Applications." Both the chairs of RISC and ASME's CNRM agreed, and felt it would be agreeable to the NRMCC. This topic will be discussed at Wednesday's NRMCC meeting.

All three ANS standards have guidance. After all requirements are incorporated into one standard, ANS standards will be re-issued as guidance documents and follow the new policy on guidance documents created for this purpose. (Attachment F – RISC Report.)

10. Liaison Reports

Calvin Hopper informed the Board of a new liaison between the NFSC and N16. Steve Giannell agreed to serve in this capacity related to the emergency preparedness standards and criticality standards.

11. New PINS Forms/Letter Ballots

No PINS or Letter Ballots were currently open.

12. Policies

Implementation of Maintenance Procedures (new)

Don Spellman suggested to change the reference statement by removing the "shall statement" thereby eliminating a requirement. A concern regarding the reference statement as applied to ANS-3.11-200x, "Determining Meteorological Information at Nuclear Facilities," was discussed at the

NFSC meeting the previous day. Prasad Kadambi stated the two reference statements are not new and have been previously approved. The Board suggested a third option. Calvin Hopper questioned the possible use of multiple statements within the same standard. Tawfik Raby felt the requirement was too rigid. Mike Wright suggested to take part of the statement from the foreword for use

Action Item 11/05-04: Jim Mallay to revise reference statement in Implementation of Maintenance Procedures by December 5, 2005, specific to ANS-3.11-200x.

Spellman recommended to take reference statement out of Implementation of Maintenance Policy. Mallay agreed it should be done at some point.

The Board expressed the view that responsibility should be put on subcommittee chairs for explaining the basis deciding on revision or reaffirmation. In the absence of a quorum, members present felt the policy was acceptable with the revision to the reference statement.

Action Item 11/05-05: Pat Schroeder to develop system/form for determination of maintenance.

Development of Guidance Standards (revised)

The Board briefly discussed the Policy on Development of Guidance Standards and determined the policy was acceptable, as it will go through the usual consensus process except for ANSI certification.

Committee Representation (new)

Raby stated he found the definition for government inaccurate. Mallay suggested for Raby to propose a statement for balance of interest for government. Kadambi recommended the current draft policy for balance of interest be tried for a few years. Spellman stated National Laboratories should not be included with the definition for government. Hopper agreed. Spellman suggested to create an ad hoc committee to develop revised balance of interest definitions. Kadambi stated we need to move ahead, and he will make a decision based on comments. Westfall added balance of interest should be based on function and also suggested for an ad hoc committee be formed to determine acceptable balance of interest definitions based on ANSI procedures. Hopper agreed to chair the ad hoc committee with the remainder of the consensus committee chairs.

Action Item 11/05-06: Calvin Hopper, chair ad hoc committee, to develop alternative balance of interest definitions (acceptable to ANSI) with Bob Bari, Tawfik Raby, and Don Spellman. Due Date: January 20, 2006.

Handling References in Standards (new)

Only one comment was provided on the Policy for Handling References in Standards prior to the meeting. The comment was accepted. The term "referenced documents" (not "referenced standards") will be used throughout the policy.

Action Item 11/05-07: Jim Mallay to revise the four policies as agreed at the November 2005 Standards Board Meeting as indicated in the resolution of comments issued earlier. Revised policies to be provided to Prasad Kadambi for review. Due Date: December 5, 2005.

13. Direction of Standards Written by ANS

The question of ANS standards being developed for all nuclear facilities was raised during the approval of the PINS for ANS-8.23, "Nuclear Criticality Accident Emergency Planning and Response." The concern was that the title of ANS-8.23 did not specify what type of facility the standard is written for. Some of the discussion on this topic occurred at the earlier meeting on

emergency planning standards. Calvin Hopper explained nuclear criticality safety standards are intended for use outside reactors for non-reactor facilities and not nuclear facilities.

Prasad Kadambi stated NRC distinguishes facilities by virtue of applicability of 10 CFR Part 50 or Part 70. The point being, we need to be careful as to what we assume for facilities. They could also mean reactors, but such is not always the case. At this time there does not appear to be sufficient basis for changing the way scopes of standards are addressed.

14. New Business

Mike Westfall asked the Board to review the statement provided to the Board of Directors for release of ANS standards to ISO for approval at Thursday's Board of Directors meeting. Westfall expressed concern additional wording be added to clarify its intent. Harry Farrar agreed clarification would be beneficial. Jim Mallay explained the additional wording was not necessary. Prasad Kadambi stated the wording was acceptable and since the statement was already submitted, it should move forward.

15. Adjournment

There being no other business the meeting adjourned at 3:55pm EST.

*Respectfully submitted,
Pat Schroeder, Standards Board Secretary*

**American Nuclear Society
Standards Board Action Items from ANS November 2005 Meeting**

Action Item	Description	Responsibility	Status
11/05-01	Pat Schroeder to approach Young Members Group to develop Standards Committee mentor program.	Pat Schroeder	Open
11/05-02	Pat Schroeder to send Calvin Hopper electronic copies of RISC drafts.	Pat Schroeder	Open
11/05-03	Pat Schroeder to send Don Spellman ANS-50.1 draft and ballot comments.	Pat Schroeder	Closed
11/05-04	Jim Mallay to revise reference statement in Implementation of Maintenance Procedures by December 5, 2005, specific to ANS-3.11-200x.	Jim Mallay	Closed
11/05-05	Pat Schroeder to develop system/form for determination of maintenance.	Pat Schroeder	Closed
11/05-06	Calvin Hopper, chair ad hoc committee, to develop alternative balance of interest definitions (acceptable to ANSI) with Bob Bari, Tawfik Raby, and Don Spellman. Due Date: January 20, 2006.	Consensus Committee Chairs	Open
11/05-07	Jim Mallay to revise the four policies as agreed at November 2005 Standards Board Meeting and indicated on resolution of comments on Standards Board Policies. Revised policies to be provided to Prasad Kadambi for review. Due Date: December 5, 2005.	Jim Mallay	Closed
6/05-01	Pat Schroeder to request information from consensus committee chairs, subcommittee chairs, and working group chairs for the 2005 Standards Committee Report of Activities – October 2005.	Pat Schroeder	Closed
6/05-03	Prasad Kadambi to appoint a chair for NTAG nominating committee.	Prasad Kadambi	Closed
6/05-04	Prasad Kadambi and Jim Mallay will discuss how to work with the DHS/ANSI Steering Committee.	Prasad Kadambi / Jim Mallay	Closed
6/05-06	Jim Mallay to work with Pat Schroeder to prepare advertising material for design standards.	Jim Mallay / Pat Schroeder	Closed
11/04-02	Pat Schroeder to provide Jim Mallay list of recent graduates from ANS membership database (7-10 years after graduation). Due: June 2006	Pat Schroeder	Open
11/04-05	Don Spellman to extend invitation through Shami Dua for additional Canadian liaisons to serve other consensus committees.	Don Spellman	Closed
11/04-06	Jim Mallay to consider rewrite of the Policy of the Development of Long-Term Plans for Subcommittees.	Jim Mallay	Closed
6/04-09	Jim and Pat to prepare a policy on addressing references in standards.	Jim Mallay/ Pat Schroeder	Closed
11/01-11	Draft a policy on reaffirmation.	Jim Mallay	Closed