

### **Members Present**

James F. Mallay, *Chair, Individual*  
Donald Spellman, *SB Vice Chair & NFSC Chair, ORNL*  
Patricia Schroeder, *Standards Administrator, American Nuclear Society*  
Dimitrios Cokinos, *Member at Large, BNL*  
Brian K. Grimes, *Member at Large, Retired (NRC)*  
Peter Hastings, *Member at Large, Duke Energy*  
Calvin M. Hopper, *N16 Chair, Oak Ridge National Laboratory*  
N. Prasad Kadambi, *Member at Large, NRC*  
Tawfik Raby, *N17 Chair, NIST*  
Michael Ruby, *Member at Large, Constellation*  
Steven Stamm, *Member at Large, Stone and Webster*  
Michael Westfall, *Member at Large, Oak Ridge National Laboratory*

### **Members Absent**

Robert Bari, *RISC Chair, Brookhaven National Laboratory*  
Michael J. Wright, *Member at Large, Entergy*

### **Guests**

Sid Bernsen, *Individual*  
Butch Colby, *CAE, Inc.*  
Timothy Dennis, *Individual*  
Chuck Moseley, Jr., *BWXT-Y-12*  
Stephen Shepherd, *Southern California Edison*  
Al Tschaeche, *Individual*

### **1. Call to Order**

Jim Mallay called the meeting to order and introductions were made.

### **2. Approve Agenda**

The agenda was approved with the addition of a discussion for a new standard.

### **3. Approval of Meeting Minutes from November 16, 2004, Washington, DC**

The minutes were approved without dissent.

### **4. Action Items**

See Attachment A.

Action Item 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.

### **5. Standards Board Chair's Report**

Jim Mallay updated the Board on recent activities of the NRMCC. The purpose of the committee is to coordinate PRA standards. Currently seven standards are involved:

- 1) ANSI/ASME-RA-S-2002, "Standard for Probabilistic Risk Assessment for Nuclear Power Plant

#### Applications”

- 2) ANSI/ANS-58.21-2003, “External Events in PRA Methodology,” currently under revision
- 3) ANS-58.22-200X, “Low Power and Shutdown PRA Methodology”
- 4) ANS-58.23-200X, “Standard on Methodology for Fire PRA”
- 5) ASME Level 1 PRA Requirements Standard
- 6) ANS Level 2 PRA Standard
- 7) ANS Level 3 PRA Standard

It is expected that draft Reg. Guide 1.200 will endorse each of these standards as they are completed. The NRMCC has directed that ASME prepare a level 1 requirements standard that incorporates the criteria from the existing ASME standard and the three ANS standards without adding new criteria. Mallay is pleased with the success of this venture.

Future NRMCC plans include consideration of a set of standards for new power plants.

The last meeting of the NRMCC was June 2, 2005, in Washington DC. Calvin Hopper asked if there were any notes from the NRMCC meeting that were available.

Action Item 6/05-02: Pat Schroeder to distribute NRMCC June 2, 2005, meeting minutes to the Standards Board when available.

Mallay reminded the Board that Prasad Kadambi will take over as Standards Board chair after this meeting. Mallay will remain on the Standards Board as vice chair for one year with the understanding that Kadambi will appoint a new vice chair starting in June 2006.

Mallay notified the Board that he was stepping down as vice chair of the Nuclear Technical Advisory Group (NTAG). Harry Farrar, NTAG Chair, is looking for a replacement. Mallay suggested that Prasad appoint the chair of a nominating committee that would be responsible for identifying candidates for the chair and vice chair for NTAG.

Action Item 6/05-03: Prasad Kadambi to appoint a chair for NTAG nominating committee.

Mallay noted that he had attended two important meetings in April. First was a standards workshop for ANS-8 and N16 (see the N16 report under item 10). Second was the student conference he attended at Ohio State. He described the experience as uplifting and encouraging. Mallay made a short presentation and provided complimentary copies of several historic standards. The presentation was well received by the students. Mallay recommends this practice be continued every other year. Membership records indicate that only 300 of the approximately 1200 ANS student members remain members after graduation. This number further drops to around 30 after only three years. Mallay urged the Board members to do everything they can to retain young members of ANS.

Mallay reported that SC-6 is experiencing a very slow start. The next meeting is scheduled for November 2005 in Argentina. Mallay has been working on acquiring administrative support from ANS to help SC-6.

Prior to the meeting, Mallay distributed his presentation to the Board of Directors. Members of the Standards Board had no comments.

Brian Grimes questioned whether there would be an opportunity for developing a business plan with DHS that concentrated on emergency response. Mallay explained that he was disappointed in being able to work with DHS through ANSI. He is the ANS representative to the steering committee that has been formed by ANSI and DHS to identify new standards, but has delegated a lot of these

responsibilities to Charles Brown, ANS-26 Subcommittee Chair on Emergency Planning. Don Spellman felt that we could get support from their national security people at ORNL.

Action Item 6/05-04: Prasad Kadambi and Jim Mallay will discuss how to work with the DHS/ANSI Steering Committee.

## **6. Secretary's Report**

Pat Schroeder reported that the new Standards Assistant, Blanca Hinojosa, is continuing to learn about the standards development process and has begun to take over the administrative function of distributing PINS, ballots, and letter ballots. One of Blanca's first projects was adding membership information to the 2004 Standards Committee Report of Activities. Blanca will continue to update the standards volunteer database based on information from the Report.

Schroeder explained that the volunteer on-line database is the next project the ANS IT Department will work on. The database is expected to be completed by the November 2005 meeting.

Schroeder reported that the ANS Standards Board has two open clarifications. One on ANS-3.1-1992;R1999, "Selection, Qualification, and Training of Personnel for Nuclear Power Plants," and the other on ANS-59.2-1985;W1995; "Safety Criteria for HVAC Systems Located Outside Primary Containment." Both are currently being reviewed.

The standards administrator provided five reports (Attachment B):

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

Schroeder distributed a copy of the 2004 Standards Committee Report of Activities to the Board and guests. She explained that while this is the first successful completion of the Report since 1991, it should be considered a working draft. Some working group chairs did not respond to three successive requests for information and in some cases, information received was incomplete. Now with a document to build on, the 2005 report should be less time-consuming and hopefully more complete and accurate next year.

The Board asked if progress is being made on more timely development of PINS. Schroeder responded that while many are making a better effort to submit PINS for approval at the onset of the development process, a significant number of ongoing projects are still in need of PINS.

Action Item 6/05-5: Pat Schroeder to provide Jim Mallay a sales report for ANSI/ANS-58.21-2003.

In light of potential new construction of nuclear power plants, Steve Stamm suggested that ANS advertise its design standards.

Action Item 6/05-6: Jim Mallay to work with Pat Schroeder to prepare advertising material for design standards.

## **7. Standards Service Award**

Don Spellman announced that the Standards Service Award Ad Hoc Committee selected Jim Mallay for the 2005 Standards Service Award. While Mallay received this award in 1990, they felt the

second award was warranted to recognize his additional 15 years of service. Also, Spellman announced that a dinner was being held on June 7 at Bully's East Restaurant to honor Mallay.

Mallay informed the Board that he was also receiving a Presidential Citation at today's Honors and Awards Luncheon.

Jim Mallay appointed an ad hoc committee to select a nominee for the for 2006 Standards Service Award: Steve Stamm (chair), Prasad Kadambi, and Calvin Hopper.

Tawfik Raby asked if two individuals could be chosen as recipients of the Standards Service Award in the same year. Mallay deferred consideration of this request. (See Mallay's synopsis of the ANS work to develop a new strategic plan, which addresses honors and awards.)

## **8. Policies**

Jim Mallay explained that he had spoken with Prasad Kadambi regarding outstanding action items. Kadambi accepted Mallay's offer to complete three policies as well as respond to the ANSI audit from the previous year. The three outstanding policies are on 1) maintenance implementation, 2) committee representation, and 3) handling references in standards. Mallay plans to address all of these items July 18, 2005, during a trip to ANS Headquarters. Once the policies are drafted, Prasad will review before sending out for approval.

## **9. Certification of Balance of Interest**

The balance of interest report was reviewed for each consensus committee. A correction was made to N17 to identify Robert Carter as a service provider. The remaining consensus committee's balance of interests were accepted as presented.

Dimitrios Cokinos questioned sharing of votes as noted on the balance of interest reports. Jim Mallay explained that ANSI prefers one vote be allowed by each organization represented on a committee for a more balanced effect. When two members on a committee are from the same organization, either one member should ballot on behalf of the organization, or they should integrate their comments as part of a single ballot.

## **10. Consensus Committee Reports**

### N16 -- Nuclear Criticality Safety

Calvin Hopper provided a summary of the last N16 meeting in April 2005 at Oak Ridge National Laboratory. The Committee reviewed specific standards under its purview, members were given electronic procedures, and subcommittee procedures were reviewed. Hopper took an action item to document N16 procedures. Hopper also provided a written report – Attachment C.

Calvin Hopper informed the Board that a SC-5 meeting was held at Oak Ridge National Laboratory April 4 – 6, 2005. The three-day meeting included working groups meetings, subcommittee meetings, and the SC-5 meeting. After the SC-5 meeting, N16 and ANS-8 held separate meetings followed by a joint meeting. Mallay gave a standards workshop on the last day.

Action Item 6/05-07: Calvin Hopper to send minutes of N16 and ANS-8 meeting to Pat Schroeder to be put on the ANS Web site.
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Hopper mentioned conversations with NRC staff concerning the draft of ISG-10 and a subsequent public meeting. Mallay noted that the NRC and ANS have worked very closely on nuclear criticality criteria, and the NRC has consistently used the margins specified in ANS-8 standards. Hopper acknowledged that good feelings came out of the public meeting.

Action Item 6/05-8: Calvin Hopper to send Prasad Kadambi letter regarding NRC conversations.

#### N17 – Research Reactors, Reactor Physics, Radiation Shielding & Computational Methods

Tawfik Raby informed the Board that ANSI/ANS-5.1-2005, “Decay Heat Power in Light Water Reactors,” (new standard - supercedes ANS-5.1-1994;W2004), will be considered by SC-6 for adoption as an ISO standard. Currently ANS-19.3-200X, “Determination of Steady-State Neutron Reaction Rate Distributions and Reactivity of Nuclear Power Reactors” (revision of ANSI/ANS-19.3-1995), and ANS-19.6.1-200X, “Reload Startup Physics Test for Pressurized Water Reactors” (revision of ANSI/ANS-19.6.1-1997), are at ballot. The PINS for ANS-10.5, “Accommodating User Needs in Computer Program Development” (new standard – supercedes ANS-10.5-1994;W2004), was approved. Raby also provided a written report – Attachment D.

#### NFSC – Nuclear Facilities Standards Committee

Don Spellman reported that the NFSC held a meeting the previous day. ANS-3.2-200X, “Administrative Controls and Quality Assurance for the Operational Phase of Nuclear Power Plants” (revision of ANSI/ANS-3.2-1994;R1999), and ANS-3.11-200X, “Determining Meteorological Information at Nuclear Facilities” (revision of ANSI/ANS-3.11-2000), are out at ballot. Tim Dennis and Butch Colby provided the NFSC a status report on the revision to ANS-3.5-1998, “Nuclear Power Plant Simulators for Use in Operator Training and Examination.” Subcommittee ANS-26 on Emergency Planning was given a major project to reaffirm the 3.8 series standards, which are reaching their tenth anniversary. Subcommittee ANS-28 on Gas-Cooled Reactors is expected to complete a first draft by the end of the year of a new ANS-53.1 on design criteria.

The NFSC discussed the possibility of broadening the scope of some standards to include nuclear facilities. Soliciting NEI representation on NFSC was also discussed.

Tawfik Raby asked if there were plans to develop a standard for Generation IV. Spellman explained that there are no plans for a specific standard on Generation IV, but the subject will be touched on in two standards currently in development; ANS-51.1-200X, “Nuclear Safety Criteria for the Design of Stationary Pressurized Water Reactor Plants,” and ANS-52.1-200X, “Nuclear Safety Criteria for the Design of Stationary Boiling Water Reactor Plants.” Both standards are historic and will become new standards when approved.

#### RISC – Risk Informed Standards Consensus Committee

Robert Bari, RISC chair, was unable to attend the meeting but provided a written report. See Attachment E.

### **11. Liaison Reports**

No reports were provided, but the generic issue of providing liaisons was discussed.

Al Tschaeche suggested that an ISO/IEC liaison to the Standards Board would be of benefit because these organizations are getting more involved in nuclear standards.

Prasad Kadambi asked whether we should ask for reciprocal membership for liaisons. Calvin Hopper didn't think we could enforce a reciprocal arrangement but suggested that a policy statement might help. Kadambi agreed.

Al Tschaeche explained that the Health Physics Society is skeptical about liaisons but believed that liaisons worked best when expectations are communicated.

Tawfik Raby suggested that ANS provide a representative to the next TC-85 meeting in June 2006 to broach the subject of an ISO liaison to the Standards Board. Mike Westfall advised the Board that he

was having trouble with cooperative work on their three ISO adopted standards. In contrast, Calvin Hopper acknowledged that there was good cooperation at the SC-5 meeting at Oak Ridge National Laboratory.

## **12. New PINS Forms**

The Board was provided an opportunity to vote on the PINS for ANS-2.27-200X, "Criteria for Investigations of Nuclear Facility Sites for Seismic Hazard Assessments," and ANS-10.5-200X, "Accommodating User Needs in Computer Program Development."

## **13. New Business**

Al Tschaeche asked the Board to consider a new standard to address Yucca Mountain waste disposal. Jim Mallay explained that the Standards Committee develops standards for multiple operations so it would have to be applicable for generic use. Additionally, Mallay felt that this subject should be discussed with the Nuclear Facilities Standards Committee (NFSC). Tschaeche was asked to submit a proposal to Prasad Kadambi via Pat Schroeder for consideration by the NFSC.

In response to Don Spellman's question on the Standards Committee policy on SI units, Jim Mallay answered that it's up to the working group to decide whether to use US units with metric units in parentheses or metric units with US units in parentheses.

## **14. Adjournment**

There being no other business the meeting adjourned at 2:15 p.m. PT.

*Respectfully submitted,  
Patricia Schroeder, ANS Standards Administrator*

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

Action Item	Description	Responsibility	Status
11/04-01	Pat Schroeder to resend 1991 Annual Activities Report to Consensus Committee Chairs	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).	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	Open
11/04-06	Jim Mallay to consider rewrite of the Policy of the Development of Long-Term Plans for Subcommittees.	Jim Mallay	Open
6/04-09	Jim and Pat to prepare a policy on addressing references in standards.	Jim Mallay/ Pat Schroeder	Open
11/01-11	Draft a policy on reaffirmation.	Jim Mallay	Open
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	Open
6/05-02	Pat Schroeder to distribute NRMCC June 2, 2005, meeting minutes to the Standards Board when available.	Pat Schroeder	Closed
6/05-03	Prasad Kadambi to appoint a chair for NTAG nominating committee.	Prasad Kadambi	Open
6/05-04	Prasad Kadambi and Jim Mallay will discuss how to work with the DHS/ANSI Steering Committee.	Prasad Kadambi / Jim Mallay	Open
6/05-5	Pat Schroeder to provide Jim Mallay a sales report for ANSI/ANS-58.21-2003.	Pat Schroeder	Closed
6/05-6	Jim Mallay to work with Pat Schroeder to prepare advertising material for design standards.	Jim Mallay / Pat Schroeder	Open
6/05-07	Calvin Hopper to send minutes of N16 and ANS-8 meeting to Pat Schroeder to be put on the ANS Web site.	Calvin Hopper	Closed
6/05-8	Calvin Hopper to send Prasad Kadambi letter regarding NRC conversations.	Calvin Hopper	Closed