

**Nuclear Facilities Standards Committee (NFSC) Minutes
18 November 2002 • Washington D.C.**

Members Present:

Don Spellman, NFSC Chair, Oak Ridge National Laboratory
Thomas Luke, NFSC Vice-Chair, Exelon Cantara
Suriya Ahmad, NFSC Secretary, American Nuclear Society
Rick Hill, GE Nuclear Energy
Donald Eggett, NFSC ANS-23 SC Chair, AES Corporation
Andrew Wehrenberg, NFSC ANS-24 SC Chair, Southern Company Services
Jean Savy, NFSC ANS-25 SC Chair, Lawrence Livermore National Laboratory
Charles Brown, NFSC ANS-26
John Dewes, NFSC ANS-27 SC Chair alternate, Westinghouse Savannah River Co.
R.H. Bryan, Jr., Tennessee Valley Authority
Harish Chander, US Department of Energy
Michael T. Cross, Westinghouse Electric
N. Prasad Kadambi, US Nuclear Regulatory Commission
James F. Mallay, Framatome ANP
Robert McFetridge, Westinghouse Electric Corporation
Charles H. Moseley, Jr., BWXT-Y12
Frederic Pineau, Knolls Atomic Power Laboratory
Mike Ruby, Rochester Gas & Electric Company
Steven L. Stamm, Stone & Webster, Inc.
C.D. Thomas, Jr., Individual

Members Absent:

Jesse Love, Bechtel Power Corporation
William B. Reuland, Individual
James Saldarini, Foster Wheeler Environment Corp.
Robert E. Scott, Scott Enterprises
John D. Stevenson, J.D. Stevenson Consultants
George Wagner, Individual

Welcome and Roll Call

D. Spellman called the meeting to order at 10:00 AM, and roll call was taken. Special guests Harry Farrar, Chair of NTAG, and Rick Serbu, TSP Manager at DOE were introduced. A quorum was present.

Approval of Minutes

The minutes of the NFSC meeting in June 2002 were approved without dissent.

MANAGEMENT REPORTS

A. Executive Committee Report – D. Spellman

The NFSC ExC held a teleconference in October 2002. The ExC discussed the progress of standards within each subcommittee. One issue that was discussed was about standard ANS-4.5, *Criteria for Accident Monitoring Functions in Light-Water-Cooled Reactors*. ANS-4.5 was an IEEE and ANS joint standard effort. During the June 2002 meeting, it was reported that ANS-4.5 would become, again, IEEE standard 497, *Standard for Accident Monitoring Instrumentation for Nuclear Power Generating Stations*.

The ExC also discussed standards membership within NFSC. The number of new volunteers for NFSC standards has been high. Working groups are finally getting more participants to maintain standards. ANS headquarters is continuing to increase the visibility of the standards program while more NFSC members are networking to fill in vacant working group positions.

B. Chair's Report – D. Spellman

While the Balance of Interest for the NFSC is in good shape, the need for more volunteers is still great, especially from utilities. The launch of the standards brochure has so far brought 18 new members to the NFSC. Input was requested from the subcommittee chairs to identify what engineering disciplines are needed for their working groups. This will be discussed at the next ExC teleconference. The need for appropriate volunteers led to the following action item:

Action Item 11/02-01: Send volunteers needed file to Rick Serbu of DOE and he will publish something like this in his DOE Standards Action publication.

C. Secretary's Report– S. Ahmad

See ANSI report, section F.

D. Standards Coordinator – S. Ahmad for T. Luke

T. Luke remarked that the standards status reports are up-to-date and are a good informational tool. The NFSC Organizational Chart has been enhanced to show all the standards under the NFSC that are withdrawn, current, inactive projects, and active projects.

E. Action Items updates from past meetings– S. Ahmad

Action items from this meeting have been updated (Attachment 1). Status updates on older action items are as follows:

Action Item 06/02-05: Provide a recommendation for an update to ANSI/ANS 58.14. *ANS-58.14 requires a working group chair and members. It was suggested to pull the standard because there is no interest in it. The standard might be a good candidate to become a Performance-Based standard. The topic of the glossary is always controversial with the NRC whether or not the standard is risk-informed. This discussion led to the following action item:*

Action Item: 11/02-01: Prasad Kadambi and Rick Hill will discuss whether or not ANS-58.14 should become a candidate to become a Performance-Based standard.

Action Item 06/02-09: Review the need for ANSI/ANS 59.53, ANS 59.54, and ANS 59.55 by the new ANS 22 subcommittee chair and make a recommendation on their disposition. *The project charters for these standards are still valid but there are no committees to work on them. It was reported that there is no interest to work on these standards and R. Hill suggested that they should remain inactive projects. Therefore, this action item is closed with the intent that these standards will remain inactive projects.*

Action Item: 06/02-18: Contact Andy Kadak and Joe Muscara, of NRC, regarding the revival of Gas-Cooled Reactors standards. *NRC has signed an agreement with IAT for funding. Possibly, influence with standards. Andy Kadak is involved with this. This action item remains open.*

Action Item: 06/02-19: Monitor progress of the new NRC Reg Guide on single failure analysis and review the need for any revision to ANSI/ANS 58.9. Due Date: 3 months after release of NRC Reg Guide. *The intent is to review and revise this standard. A working group chair and members are need. This action remains open.*

LIAISON REPORTS

A. ISO NTAG/TC-85- Harry Farrar (Attachments 2, 3, 4)

Harry Farrar, Chairman of NTAG, made a special appearance to discuss the status of NTAG TC-85, its working groups, and the formation of SC-6, Reactor Technology. H. Farrar distributed several documents identifying the types of working group members needed for SC-2 and SC-5. H. Farrar explained more clearly what NTAG does and how it coordinates the US position for ISO/TC-85, Nuclear Energy.

B. DOE – Rick Serbu (Attachment 5)

Rick Serbu, TSP Manager at DOE made a special presentation about the Technical Standards Program (TSP) and DOE Topical Committees.

C. ASME NQA Liaison Report – C. H. Moseley

The ASME NQA Committee met in Clearwater Beach this September. The meeting focused on the interest in pursuing the NRC to endorse the 2000 version of the standard. The NRC has not made progress to endorse any revision since the joint meeting between NRC and ASME NQA in 1999.

E. ANSI – Suriya Ahmad

At the last NFSC and SSC meetings there were some questions about withdrawn, historical and superceded standards. It was questioned what these words technically meant under the procedures of the American National Standards Institute (ANSI). S. Ahmad talked with ANSI in September about this. According to ANSI, they do not have an official definition that distinguishes standards that are withdrawn or superceded. If a standard is a revision of an older standard then the older version would be automatically withdrawn by ANSI, whether or not the standard has been administratively withdrawn by the SDO or ANSI.

SUBCOMMITTEE REPORTS

(See Attachment 6 for all SC reports)

ANS-21: Nuclear Power Plant Design Criteria & Operations – Mike Ruby

The new proposed standard, ANS-2.2, *Earthquake Instrumentation Criteria for Nuclear Power Plants*, was approved by ANSI in November 2002 (ANS-2.2 is being edited). ANS-2.10 has been distributed for its third ballot period. Several of the members expressed that they would like to see the difference between the previous draft changed and the present draft.

Action Item: 11/02-02: S. Ahmad will distribute the changes made to the ANS-2.10 draft from the second and third ballot period.

It has been determined that ANS-4.5, *Criteria for Accident Monitoring Functions in Light-Water-Cooled Reactors*, will be revised; working group members and a chair is required as soon as possible.

The PINS form for ANS-58.3, *Physical Protection for Nuclear Safety-Related Systems and Components*, has been completed, but it needs to be approved by the NFSC and SSC.

Action Item 11/02-03: S. Ahmad will send out the PINS form for ANS-58.3 to the NFSC for approval.

ANS-22: Nuclear Power System Level Design –Rick Hill

It was questioned whether or not ANS-51.1, *Nuclear Safety Criteria for the Design of Stationary Pressurized Water Reactor Plants* and ANS-52.1, *Nuclear Safety Criteria for the Design of Stationary Boiling Water Reactor Plants* should be revised or used to make them risk-informed standards. Based on the discussion it might be best to make them risk-informed. P. Kadambi has a contact who he will connect Rick Hill with.

The working group for ANS-51.10 has already revised the standard. The draft will be sent to S. Ahmad for NFSC ballot.

ANS-58.14 requires revision by new working group members. If ANS-58.14 is withdrawn, that will condemn ANS-51.1 and ANS-52.1 because the three standards should be coordinated together.

Action Item 11/02-04: D. Spellman will work with S. Ahmad to find a new working group for revising ANS-58.14.

ANS-23: Decommissioning & Site Remediation Standards – D. Eggett

D. Eggett is trying to find interested parties and regulators to tell him what standards (active and inactive should be prioritized. He remarked that he would need the NRC's help with this. D. Eggett mentioned that ASTM has been testing solid and mixed wastes since 1996. The work needs to be collaborated and standardized. DOE has a decommissioning standard that may be of interest with 3 levels/phases. More information about this can be seen from DOE's website. D. Eggett will follow this up.

ANS-24: Analysis Standards Subcommittee – Andy Wehrenberg

The status for this subcommittee is same as was reported for the June 2002 meeting. Highlighted points were the PINS for ANS-58.2 is in process and ANS-56.4 requires a working group chair and members.

ANS-25: Siting – Jean Savy

It was reported that the draft for ANS-2.2 is nearly complete for consensus committee ballot. The PINS for ANS-2.3 was sent to ANSI, but they did not publish an announcement of it. S. Ahmad will contact ANSI and have them publish notification of the PINS for ANS-2.3. ANS-2.8 has almost completed the reaffirmation ballot process. ANS-2.8 does require revision still, so J. Savy and the working group chair, Ron Noble, if responsive, will create a PINS form for revising the standard.

ANS-2.26, ANS-2.27, and ANS-2.29 are joint standards between DOE and ANS. It is expected that these standards will be ready for NFSC ballot in 2003. It was stated that these standards are more ahead of what ISO has done but are a great starting point for ISO (submitted together to NFSC for ballot and submitted to ISO together for their endorsement). ANS-2.27 is idle because it is waiting for ANS-2.26 to be in NFSC review process otherwise changes to ANS-2.26 affect ANS-2.27. The working group chair of ANS-2.29 is Neil Brown. N. Brown is presently pulling all the subcommittee comments together in preparation for NFSC ballot, which is expected in 2003.

ANS-2.30 is in draft form. S. Ahmad will track if the draft is ready for NFSC ballot. J. Savy and J. Dewes will discuss the coordination of ANS-40.21, *Siting and Operating Commercial Burial Grounds*. Apparently, ANS-40.21 is an active project, but requires a working group chair.

ANS-26: Emergency Planning – Charles K. Brown

The issue of homeland security was brought up. This topic is difficult to address in standards because it's supposed to be confidential. Writing a more generalized standard may be a possibility, but C.K. Brown expressed that he does not want to discuss security in a standard.

ANS-27: Fuel Cycle & Waste Management –John Dewes

ANS-2.19, *Guidelines for Establishing Site-Related Parameters for Site Selection and Design of an Independent Spent Fuel Storage Installation*, requires revision. According to the minutes of the last meeting, J. Dewes and S. Stamm were looking for volunteers from Stone & Webster. J. Dewes confirmed that there is no interest in ANS-2.19, so assembling a working group is not recommended at this time.

J. Dewes committed to responding to the four approved with comments votes for ANS-40.35. ANS-40.35 was at ballot for reaffirmation; unfortunately, the standard was administratively withdrawn by ANSI before the reaffirmation process could complete. Therefore, ANS-40.35 is withdrawn. Submitting the standard to ANSI now would give the standard a "new" status.

ANS-57.8, *Fuel Assembly Identification*, has a working group chair and three volunteers, who are all utilities. The working group needs non-utility volunteers, such as NRC people and/or architect/engineering professionals.

ANS-57.10 requires volunteers. ANS-57.7 and ANS-57.9 are good candidates for Performance-Based standards.

OLD BUSINESS

A. Standards for Discussion – T. Luke

This was discussed during the subcommittee reports and during the Standards Coordinator report.

B. Status of NFSC Glossary- R. Scott

R. Scott was not present for the meeting to give an update. S. Ahmad commented about the NFSC Glossary that is posted on the NFSC website. She reminded the NFSC members that the Glossary is in draft form and has been posted on the website for each member to review and post comments and suggestions. At the time of the meeting no comments were posted.

C. ANS Website Update – S. Ahmad

The ANS website and the NFSC portion of the website has undergone monthly updates. Two projects that the Standards Department is coordinating are posting all clarifications/interpretations and remodeling the ANS standards online store. The Standards department is also building an archive of all ANS standards at headquarters. Part of the archiving involves developing a "History Page" about each standard and how it evolved over the years (reaffirmed, revised, when erratas and forewords were issued, etc.). Once the information is

compiled, S. Ahmad will work with the IT department about how to make this informational available to standards members and the public.

D. Policies and Procedures Revisions – J. Saldarini

J. Saldarini was absent from the meeting so a report was not given.

Action Item 11/02-05: S. Ahmad will double check if there are any other drafts of the NUPPSCO procedures and send them to C. Moseley who will assist J. Saldarini with the project.

**E. ANS Survey Compilation of Items for NFSC – S. Stamm
(Attachment 7)**

S. Stamm reported that only 10% of the survey was useful for the ANS Standards Committee, and half of the 10% was good for NFSC purposes. S. Stamm will organize all the comments and report to the SSC.

F. Candidates for Performance-Based Standards – N.P. Kadambi

N.P. Kadambi needs the contact information of candidates who are experienced to work on performance-based standards within the next few months. This group will do a test run of a performance-based standard by selecting one or two ANS standards revising them into performance-based. ANS standards that were suggested for this project included, ANS-51.1, 52.1, 57.7, 57.9, and 58.14.

NEW BUSINESS

A. Use of EPRI documents as reference in standards ANS-53 Gas-Cooled Reactors standards

It was recommended not to reference EPRI documents as part of a “shall” statement because purchasing an EPRI document is highly expensive, something the committee does not want to bring upon the user.

This concludes the NFSC minutes for November 2002.

Submitted By,

/S/

Suriya Ahmad,
NFSC Secretary

ANS Standards Administrator

Attachments

Attachment 1: NFSC Action Items – November 2002

Attachment 2: NTAG PowerPoint Presentations

Attachment 3: NTAG: Standards of ISO/TC-85

Attachment 4: NTAG: U.S. Manpower Needs for ISO/TC-85 (working groups SC-5 & SC-2)

Attachment 5: DOE Technical Standards Presentation

Attachment 6: NFSC Subcommittee reports (ANS-21 – ANS_27)

Attachment 7: Analysis of ANS Survey (regarding the Standards questionnaire part)

Other Attachments from the Standards Department:

Attachment A: Status of all NFSC Standards

Attachment B: NFSC Projects at Ballot

Attachment C: NFSC Staff Report

Attachment D: NFSC November 2002 Standards Organizational Chart