

**American Nuclear Society
Standards Committee Working Group 3.5
Nuclear Power Plant Simulators for Use in Operator Training and Examination**

MEETING MINUTES
November 04-05, 1998

American Nuclear Society Headquarters
555 North Kensington Avenue
La Grange Park
Illinois

Recorded by Timothy Dennis

Wednesday 04 November 1998

Chairman, **Jeffrey J Cataudella** of Northeast Utilities opened the meeting on Wednesday 04 November 1998 at 9:30am, and appointed **Timothy Dennis**, an independent consultant, as recording secretary for the meeting. Mr. Dennis accepted the assignment and conducted the roll call using the membership list of 01 September 1998 provided by Mr. Cataudella.

ROLL CALL

Attending members and host **Shawn M Coyne-Nalbach** of the American Nuclear Society updated their contact information (Attachment 1). In attendance were Mr. Cataudella, Mr. Dennis, **Frank Collins** of the US Nuclear Regulatory Commission, **Robert A Felker** of Exitech Corporation, **Hal Paris** of GSE Power Systems, Inc, and **Keith P Welchel** of Duke Power Company.

Jim Florence of Nebraska Public Power District related his regrets to Cataudella, that he was in an extended outage at Cooper Plant as a fuel-handling operator and could not attend the meeting. Allan Abramovitch of CAE Electronics LTD, related his regrets to Mr. Cataudella that he was unavailable due to business reasons. James Stavelly expressed to Mr. Dennis an interest in retaining voting membership status. James Davis of the Nuclear Energy Institute had no contact with the attending members. Mr. Felker related that Rob A Johnson, also of Exitech, will substitute for Mr. Felker as needed. Former member Lawrence W Dunlap of Carolina Power and Light Company has resigned by e-mail to Mr. Cataudella. Michael J Wright of Entergy has moved to the ANS-3 oversight committee and serves as the 3.5 sub-committee chairman. William Geise of Exitech Corporation had previously resigned. Thomas E James of Southern California Edison had previously retired from the industry.

AMERICAN NUCLEAR SOCIETY

Ms Coyne-Nalbach provided an overview of the Standards process, including briefing on the function of the American National Standards Institute (ANSI):

- The function of the American Nuclear Society (ANS) Standards Committee;
- The Standards process;
- All ANS Standards are ANSI approved;
- The ANS-3 Committee has sub-committee chairman for each Working Group. Michael J. Wright of Entergy is the ANS-3 sub-committee chairman for the ANS-3.5 Working Group;
- The N48 and NUPPSO Steering Committees joined to form the Nuclear Facilities Standards Committee (NFSC);
- Standards are approved by a consensus of each level;
- A consensus is not unanimous;
- Balance is not required at the Working Group level, however it is desirable for completeness and accuracy in the Standard;
- ANSI automatically classifies a Standard as historical after ten (10) years;
- ANSI historical standards are not considered valid and are not in the catalog;
- Historical Standards should be cited as "from historical Standard ANS...";
- ANS Standards are copyrighted, thereby ANS will supply all necessary copies from the ANS Standards Secretary;
- Formal meeting minutes are required for Working Groups.

AMERICAN NUCLEAR SOCIETY MEMBERSHIP

Scott M Braland, membership marketing administrator of the American Nuclear Society, presented the benefits of membership in the American Nuclear Society. ANS has approximately 11,000 members. ANS also maintains an online resume database currently containing 863 members. Mr. Braland will provide new Working Group members with ANS membership information.

ANS-3.5 WORKING GROUP MEMBERSHIP

A discussion to garner membership candidates through Notice in ANS News, SCS Notice at Jan 1999, and a letter to Chief Nuclear Officers was held. Note was made that this NS-3.5 reorganization was announced at meetings of the Utility Simulators Users Group (USUG), the SCS Western Multi-Conference of January 1998, and personal contacts. A motion was presented, seconded and passed unanimously that the attending members would vote on candidates who had expressed their interest by way of sending resumes to Mr. Cataudella. These candidates gained notice of the Working Group re-organization through personal contact, announcements at conferences, and USUG meetings.

MEMBERSHIP POLICY

Missing two meetings shall result in review of membership status;

NEW MEMBERS

- ANS will post future calls for new members in ANS Standards News;
- Six candidate resumes were reviewed and accepted by majority vote:
 - Butch Colby - General Physics;
 - William A DeLuca - Pennsylvania Power and Light Company (Susquehanna);
 - Alan Kozak - Virginia Electric Power Company (North Anna);
 - George McCullough - American Electric Power (DC Cook);
 - Kenneth Rach - Commonwealth Edison;
 - Michael Shelley Entergy (Grand Gulf);
- Bernie Quinn of INPO was presented as a potential candidate, but no resume was available for review;

PROXY POLICY

- The Chair shall be informed of absences;
- The absent member is encouraged to send a proxy;
- A Proxy shall not have voting privileges;

E-MAIL ATTACHMENTS (Document Intercommunication)

Discussion of a common intercommunication standard for e-mail attachments resulted in "WORD for Windows 95 v7.0" being selected;

ADJOURN FOR THE DAY

The meeting was adjourned for the day at 6pm Wednesday 04 November 1998 to be re-convened Thursday 05 November 1998 at 9am.

Thursday 05 November 1998

Chairman, Mr. Cataudella called the second day of the meeting to order on Thursday 05 November 1998 at 9:30am. Mr. Dennis continued recording of the minutes. Mr. Collins, Mr. Felker, Mr. Welchel, and Ms Coyne-Nalbach were also in attendance.

OFFICERS

Discussion of Working Group organizational structure resulted in a distribution of the managerial and administrative tasks over five officers to head the Working Group:

- **Chairman:** Elected by the ANS-3 oversight committee will oversee the operation and administrative duties of the Working Group; will assign duties to other officers and members; will complete tasks of unavailable officers and members.
- **Vice-chairman:** Appointed by the chairman with consensus of the members will substitute for an unavailable chairman; will assume duties of other unavailable officers.
- **Recording Secretary:** Appointed by the chairman with consensus of the members will record and prepare the meeting minutes for approval of the Working Group membership; will call the roll at meetings; will maintain the membership contact information; will forward approved minutes to the ANS Secretary.
- **Editor:** Appointed by the chairman with consensus of the members will maintain the draft revisions of the Standard through the writing process; will maintain Working Group reasoning for retention or modification of requirements, recommendations, and permissives.
- **Writing Style Editor:** Appointed by the chairman with consensus of the members will bring issues regarding style, grammatical anomalies, and semantic ambiguities to the attention of the membership; will acquire and cite formal style guidelines of ANSI and ANS. REVIEW OF ISSUES

SCOPE

Discussion of revision to the Scope of ANS-3.5 was deferred to the next meeting when the full membership could be available.

REVIEW OF ISSUES

The Working Group reviewed the "parking lot" issues listed from the last meeting; T Dennis provided the original

ANSI/ANS-3.5-1998 Revision Issues:

- 1) Exam Security;
- 2) NRC Information Notices in section 3.1.4 list;
- 3) Change 3.3.3(7) to "Rated coolant flow";
- 4) Review use of lists in the body of the Standard;
- 5) Provide examples of stimulated hardware;
- 6) Reconsider mandatory requirements for stimulated hardware in section 3.3.3;
- 7) Review use of "training needs assessment" as a criterion;
- 8) Review use of "discrepancy" versus "deviation", et al;
- 9) Review industry experience using the new Standard testing requirements;
- 10) Review "part task" and "limited scope" simulators;

- 11) Review usage of a full scope simulator load in part task and limited scope simulators;
- 12) Review usage of simulators for uses other than operator training;
- 13) Review usage of a reference unit simulator for sister/similar unit training;
- 14) Review comments on regulation;
- 15) Discuss facilitating clarification and interpretation issues;
- 16) Conduct workshops on testing philosophy;
- 17) Review "real time";
- 18) Consider requirements for process guidelines (procedures).

NEXT MEETING

Mr. Paris and Mr. Welchel volunteered to host the next meeting to be held near the end of February 1999 or in March 1999. The Duke Power Company Oconee Simulator Training site was chosen for the meeting in Seneca, South Carolina to be hosted by Mr. Welchel.

ADJOURNMENT

This first meeting of the re-organized ANS-3.5 Working Group adjourned at 3pm Thursday 05 November 1998

ATTACHMENT 1

ATTACHMENT 2

American Nuclear Society Standards Committee Working Group 3.5 Officers and members as of 04 November 1998:

- Chairman Jeffrey J Cataudella, Northeast Utilities (Millstone)
- Vice-Chairman Timothy Dennis, Consultant
- Recording Secretary James B Florence, Nebraska Public Power District (Cooper)
- Editor Keith P Welchel, Duke Power Company (Oconee)
- Writing Style Editor J Frank Collins, US Nuclear Regulatory Commission
- Allan Abramovitch CAE Electronics LTD
- Butch Colby General Physics
- James Davis Nuclear Energy Institute
- William A DeLuca Pennsylvania Power and Light Company (Susquehanna)
- Robert A Felker Exitech Corporation
- Alan Kozak Virginia Electric Power Company (North Anna)
- George McCullough American Electric Power (DC Cook)

- Hal Paris GSE Power Systems, Inc
- Kenneth Rach Commonwealth Edison
- Michael Shelley Entergy (Grand Gulf)
- James Stavely Public Service Electric and Gas Company (Hope Creek)

Minutes Approved by the Working Group on March 2, 1999,

_____, Recording Secretary ANS-3.5