

ANS 3.5 Working Group Meeting Minutes
American Nuclear Society – La Grange Park, IL
2010 Oct 05-06

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1. **Visitors**

Visitor	Date	Affiliation	Email, Phone Fax
Tim Dennis Observer	2010jul27	645 Lehigh Gap St. P. O. Box 119 Walnutport, PA 18088-0119	Email: a243@yahoo.com Phone:610-767-0979 Fax: 610-767-7095

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2. Roll Call – (of Voting Membership for this Meeting Session)

Present	Member	Address	Notes-Proxy	Email-Phone-Fax
Present	Jim Florence Chair	Nebraska Public Power District P. O. Box 98 Brownville, Nebraska 68321		Email: jbflore@nppd.com Phone: 402-825-5700 Fax: 402-825-5584
Absent	Robert Felker Vice Chair	Western Services Corporation 7340 Executive Way, Suite A Frederick, MD 21704		Email: felker@ws-corp.com Phone: 301-644-2520 Fax: 301-682-8104 Cell: 240-344-5889
Present	Keith Welchel Secretary	Duke Power Company Oconee Training Center- MC:ON04OT 7800 Rochester Hwy Seneca, SC 29672		Email: kwelchel@duke-energy.com Phone: 864-885-3349 Fax: 864-885-3432
Present	F.J. (Butch) Colby Editor	L-3 MAPPS 8565 Cote-de-Liesse Quebec, Canada H4T 1G5		Email: butchcolby@comcast.net Email: butch.colby@l-3com.com Phone: (410) 756-1924 Fax: (410) 756-1954
Present	Lawrence (Larry) Vick Parliamentarian	US NRC, Office of Nuclear Reactor Regulation 07-G13 Washington, DC 20555		Email: lawrence.vick@nrc.gov Phone: 301-415-3181 Fax: 301-415-3061
Present	George McCullough	GSE Systems, Inc. 2300 St. Marys Road Suite D St. Marys, GA 31558		Email: gsmccullough@gses.com Phone: 912-576-6730 Cell: 410-707-6946
Absent	Dennis Koutouzis	INPO 700 Galleria Parkway, NW Atlanta, GA 30339-5957		Email: koutouzisjd@inpo.org Phone: 770-644-8838 Fax: 770-644-8120
Present	Frank Tarselli	129 Abbey Rd Sugarloaf, PA 18249		Email: frankt64@epix.net Phone: 570.542.3717 Cell: 570-956-0303 Fax: 570.542.3855
Present	SK Chang	Dominion Nuclear Connecticut, Inc. Millstone Power Station L. F. Sillin, Jr. Nuclear Training Ctr. Rope Ferry Road Waterford, CT 06385		Email: Shih-Kao.Chang@dom.com Phone: 860-437-2521 Fax: 860-437-2671
Present	Robert Goldman	Entergy 1340 Echelon Parkway Jackson, MS 39213-8298		Email: rgoldma@entergy.com Phone: 601-368-5582 Fax:
Absent	David Goodman	Luminant PO Box 1003 Glen Rose, TX 76043		Email: david.goodman@luminant.com Phone: 254-897-5636 Fax: 254-897-5714

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Present	Jody Lawter	VC Summer Nuclear Station PO Box 88 Jenkinsville, SC 29065		Email: jody.lawter@scana.com Phone: 803-345-4854 Fax: 803-931-5616
Absent	Mac McDade	Progress Energy – Harris Nuclear Plant 3932 New Hill–Hollerman Rd New Hill, NC 27562		Email: mac.mcdade@pgnmail.com Phone: 919-362-3319 Fax: 919-362-3346
Absent	Michael Petersen	Xcel Energy – Prairie island – Monticello 1660 Wakonade Drive West Welch, MN 55089		Email: Michael.petersen@xenuclear.com Phone: 651-388-1121 x 7253 Fax: 651-330-6282
Absent	Pablo Rey	Tecnatom, s.a. Avda. Montes de Oca, 1 San Sebastian de los Reyes, 28703 - Madrid		Email: prey@tecnatom.es Phone: +346-079-99218 Fax: +349-165-98677
Absent	James Sales	North Anna Power Station 11022 Haley Drive, PO Box 402 Mineral, Virginia 23117-0402		Email: jim.sale@dom.com Phone: 540-894-2464 Fax: 540-894-2931
Host	Patricia Schroeder	Standards Administrator American Nuclear Society 555 North Kensington avenue La Grange Park, IL 60526-5592		Email: PSchroeder@ans.org Phone: 708-579-8269 Fax: 708 352 6464

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3. **Action Item List**

3.1 Action Item Quick-look Table

Open				Complete		Carried to Next Standard			
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15					

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3.2 New Action Items

No.	Status	Date	Assigned To:	Work Assignment
1		2010oct05	Florence	Appoint new members for officer development (job shadow for position development).
2		2010oct06	McCullough Koutouzis	2009 AI-60 Define Training Needs Assessment
3		2010oct06	Vick Tarselli (BWR) TBD (Pwr)	2009 AI-126 Performance Testing Program
4		2010oct06	Tarselli Vick Chang	2009 AI-132 Review Malfunction Testing
5		2010oct06	McCullough Florence	2009 AI-134 Minimum testing Periodicity
6		2010oct06	Welchel Lawter	2009 AI-147 2009 AI-180 Non-fully integrated mode performance
7		2010oct06	Vick	2009 AI-150 Review the term Power Range for consistency
8		2010oct06	Chang Tarselli Felker	2009 AI-162 Review Appendix B parameters against the standard body
9		2010oct06	Felker Lawter McCullough	2009 AI-163 Next generation simulators
10		2010oct06	McCullough Felker	2009 AI-179 Real-time and Repeatability testing Periodicity
11		2010oct06	Goodman	2009 AI-181 Section 5 rewrite 2009 Westrain Comment #60

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12	Complete: 2010oct22	2010oct06	Florence	Invite ANS-21 Chair to WG meeting ANS-21 Chair Gene Carpenter Two White Flint North Washington, DC 20555-0001 Mobile Ph: 202-579-5155 Work Ph: 301-415-7333 Email: gene.carpenter@nrc.gov
13		2010oct06	Florence	Send letters of appointment to new working group members and their respective facility management
14		2010oct06	Florence	Coordinate next ANS-3.5 Meeting at the Crystal River Nuclear Power Plant in January 2011
15		2010oct06	Florence	2009 AI-185 Send a letter to the NEI in an effort to promote NEI participation in the ANS-3.5 Working Group and to develop a more collaborative relationship.

4. Working Group Procedural Rules

4.1 Rules of the Chair

- Interim Voting (Motions – Substantive Changes) shall be by Consensus (75% [rounded up] of quorum in session);
- The Chair rules that no Motions will be accepted when not in session;
- Administrative issues by simple majority (quorum in session);
- The Chair shall be informed of absences;
- The absent member is encouraged to send a proxy.
- A Proxy shall have voting privileges
- Members shall attend the full length of the meeting;
- Word 7.0 shall be the document format;
- The Host shall collect and send all handout material for absent members without proxy;
- Robert's Rules of Order shall be used as a general guide;
- Guest Individual Contributors may receive working copy of the draft standard based on need;
- Chair approval shall be required for distribution of working copies of the draft standard;
- Members shall not Vote against their own non-amended Motion;
- The WG will through the course of normal business, generate confidential documentation applicable to the WG charter. As a result of this business, documentation could be released to the public through approved minutes posted on the ANS 3.5 WEB site. Other information may be released to the public as deemed appropriate by the WG Chair or Vice-Chair. In addition, information may be supplied to non-working group members on a need-to-know basis for the purpose of review and comment.

4.2 Rules Enacted by the Working Group

Missing two consecutive meetings in a row without representation could result in loss of membership on the committee.

5. Tuesday 2010 Oct 05 (0800)

5.1 Introduction (Patricia Schroeder)

5.2 Roll Call

Present:

Chang, SK
Colby, Butch
Florence, Jim
McCullough, George
Tarselli, Frank
Vick, Larry
Welchel, Keith

Absent:

Felker, Bob
Koutouzis, Dennis

5.3 Consensus Level

- 9 - Voting members
- 7 - Voting members Present
- 4 - Quorum (Majority Total Membership)
- 6 - Consensus (75% Membership Attendees)
- 5 – Super Majority (2/3 Membership Attendees)
- 4 – Majority (> 50% Membership Attendees)

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5.4 Agenda Approved

5.5 Election of Officers

Chair – Florence

Vice Chair – Felker

Secretary – Welchel

Editor – Colby

Style Editor – Chang

Parliamentarian – Vick

5.6 Business Rules

Roberts Rules of Order

5.7 Members reviewed Rules of the Chair (No change)

5.8 Officers reports

Florence

No report

Welchel

No report

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Colby

No report

Chang

No report

Vick

NEI SB Workshop 2010Oct07

USUG (Florence)

No report

5.9 Scope Review

Issues for consideration in determining Standard's Scope Update

- McCullough – presented Power Point concerning international standards development
- List of Simulator uses:
 - Engineering Assist
 - Procedure Validation
 - Emergency Planning
 - Pre-run plant evolutions
 - Pre Unit modification (JITT, Procedures...)
 - Human Factors Eval
 - Rx Experience (Meeting Experience Requirements)
 - Classroom Simulators
 - Periodicity
 - Public Relations

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- List of new technologies and uses
 - New Builds/Engineering Assist
 - DCS/Engineering Assist
 - Virtual Reality
 - Cyber Security
 - Outside Influences on Plant OPS

5.10 New membership

The following applicants were appointed membership to the working group:

Robert Goldman (Entergy)
David Goodman (TXU Energy)
Jody Lawter (SCANA)
Mac McDade (Progress Energy)
Michael Petersen (Xcel Energy)
Pablo Rey (Tacnatom)
James Sales (Dominion, Virginia Power)

5.11 Recessed: 1630

6. Wednesday 2010 Oct 06 (0800)

6.1 Standard Scope Development (continued)

The working group reviewed the previous days' efforts and consolidated tangible focus areas to address in the next edition of the Standard:

- List of Simulator uses:
 - Engineering Assist
 - 201x – Needs Definition
 - Meeting Experience Requirements
 - 201x – Needs Definition
 - Utilize Classroom or Simulators other than Full Scope
 - Classroom, Soft Panel, Glasstop, etc Simulators
 - 2009 Appendix D is not referenced in standard body
 - Possibly use for meeting experience requirements
- List of new technologies and uses
 - New Builds
 - Engineering Assist
 - Human Factors
 - Separate sections in next Standard could identify needs for:
 - Initial (new) Build Simulators
 - Continuing maintenance on “legacy” simulators
 - DCS
 - Engineering Assist
 - Human Factors
 - Emulation
 - Virtual Reality

6.2 2009 Action Item Review

Closed items are listed here. All other Action Items brought forward are renumbered and are listed in the Action Item table.

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AI-137 Closed

Refer to foreword of 2009 ANS-3.5 Standard

Additionally, WG experience was presented at the 2005 SCS conference

AI-141 Closed

Superseded by NEI 09-09 R1 as endorsed by NRC

Addition of ANS-3.5-1998 PEST Section 3.4.3.4 and Simulator Reactor Core Performance Testing Section 3.4.3.3

6.3 DRAFT Agenda for next meeting:

- Focus Areas Review
- Action Item Review
- Establish Scope
- Initiate PINS
- Assign Work

6.4 Adjourned: 1625

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Motion Template

Date: Owner: Description: Motion:	Motion: Carried / Not
	Carried
	For: <input type="text"/>
	Against: <input type="text"/>
	Abstained: <input type="text"/>

7. **Action Items Carried to Next Standard [For WG Use Only]**

60	2004 Aug 25 Deferred to Next Standard for consideration	Priority 1	McCullough Shelly	Define the Term Training Needs Assessment in such a manner that it is clear in intent to both Training and Simulator staff 2004aug25 McCullough Recommend to keep deferred due to effort to correct 2002apr23 McCullough History presentation of Training Need Assessment. See Appendix 2001Apr05 McCullough Trainers and Simulator personal view Training Needs Assessments Differently; Training Needs Analysis and Training Needs Assessment are not used consistently. McCullough will revisit this item in a future date; Reference: ACAD-85-006 “A Supplement to Principles of Training Systems Development” 2010oct06 Assigned as AI-2 for ANS-3.5-201X Standard edition.
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126	Status: 2004 Aug 26 Deferred to next standard for consideration		Vick Shelly – BWR Kozak – PWR Golightly - BWR	Consider adding Performance Test Program in next standard 2004 Aug 26 Deferred to next standard for consideration Vick 2003 Apr 05 Initial AI 2010oct06 Assigned as AI-3 for ANS-3.5-201X Standard edition.
132	Status: 2004 Nov 09 Deferred to the next standard for consideration		Wyatt	Review Section 4.1.4 – Malfunction testing 2004 Nov 09 Deferred to the next standard for consideration 2004 Aug 26 Felker Required Malfunction testing is ambiguous. Lengthy Discussion concerning removing the malfunction list in 4.1.3. Wyatt will assume lead role for this AI in the next standard's revision. 2010oct06 Assigned as AI-4 for ANS-3.5-201X Standard edition.

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134	Status: 2004 Nov 08 Deferred to the next standard for consideration		McCullough Felker Florence	<p>Minimum Testing Periodicity Table</p> <p>2004 Nov 10 After lengthy discussion, deferred to the next standard for consideration</p> <p>2004 Nov 8 Presented Proposed Appendix E</p> <p>2004 Aug 26 Initial AI</p> <p>2010oct06 Assigned as AI-5 for ANS-3.5-201X Standard edition.</p>
137	Status: 2010oct06	Closed	Florence Koutouzis Shelly	<p>Establish better (routine) communication on ANS WG makeup and activities Target audience – Plant management</p> <p>2004 Nov 11 Deferred to the next standard for consideration</p> <p>2004 Aug 27 Initial AI</p> <p>2010oct06 Closed; ANS-3.5-2009 working group activities have supported better (routine) communication on ANS WG makeup and activities .</p>

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141	Status: 2010oct06	Closed	Tarselli	<p>Review incorporation of alternative testing methods into Section 3.4.3.2.</p> <p>2004 Nov 10 Due to magnitude of subject matter, Tarselli recommended Alternative Testing be deferred to next standard for consideration</p> <p>2004 Aug 27 Initial AI</p> <p>2010oct06 Closed; superseded by NEI 09-09 R1 as endorsed by NRC.</p>
147	Deferred to next Standard	2007may01	Welchel	<p>Impact of Fully-Integrated Mode of Operation on Performance Testing (Deferred to next standard)</p> <p>2010oct06 Assigned as AI-6 for ANS-3.5-201X Standard edition.</p>
150	Deferred to next Standard	2007may02	Vick	<p>Review consistency in the use of the Term Power Range (Deferred to next standard)</p> <p>2010oct06 Assigned as AI-7 for ANS-3.5-201X Standard edition.</p>
162	Deferred to Next Standard	TBD	TBD	<p>Next standard revision review Appendix B parameters against standard body. 2008 October 18-26 Meeting Minutes; Section 10.22 Initial AI</p> <p>2010oct06 Assigned as AI-8 for ANS-3.5-201X Standard edition.</p>

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163	Deferred to Next Standard	TBD	TBD	Next standard revision review for next generation nuclear reactor/plant designs. 2008 October 18-26 Meeting Minutes; Sections 10.24 & 12.48 Initial AI 2010oct06 Assigned as AI-9 for ANS-3.5-201X Standard edition.
179	Deferred to Next Standard	TBD	McCullough	Real-time and repeatability periodicity. 2008 October 18-26 Meeting Minutes; Section 11.17 Initial AI 2010oct06 Assigned as AI-10 for ANS-3.5-201X Standard edition.
180	Deferred to Next Standard	TBD	TBD	Performance testing in a non-fully integrated mode Section 3.4.3. 2008 October 18-26 Meeting Minutes; Section 12.35 Initial AI 2010oct06 Assigned as AI-6 for ANS-3.5-201X Standard edition.
181	Deferred to next Standard	TBD	TBD	Section 5 Separate Requirements for Initial Simulator Construction and Subsequent Simulator Changes 2008 October 18-26 Meeting Minutes; Section 13.7 Initial AI 2010oct06 Assigned as AI-11for ANS-3.5-201X Standard edition.