NPEC Subcommittee SC-3, Operations, Maintenance, Aging, and Testing

Meeting 08-1 Tuesday, Jan. 22, 2008 San Antonio, TX.

Members Present: George Ballassi (Chair) Ted Riccio (Secretary)

Ali Daneshpooy Mansoor Sanwarwalla Rachel Gunnett Glen Schinzel (Vice Chair)

Peter Kang Owen Scott
Jim Liming John Stevens

Members Absent: Larry Gradin Jacob Kulangara

Hamid Heidarisafa

Dave Horvath

John Taylor

1.0 Introduction

Opening Remarks

Chairman George Ballassi called the meeting to order at 8:06 AM Jan 22. He announced that his major goals for the day were to address succession plans, the white paper (Option 3) and other standards.

Introductions went around the table with several guests present. These were:

Kiang Zee from Erin Engineering

Jim Parello from Westinghouse

Graig Sellers from Alion Science and Technologies

Yvonne Williams from Yucca Mountain

Tom Crawford from Hurst Technologies

Meeting Agenda

The meeting agenda was discussed and there were no objections or suggestions to change it.

2.0 SC-3 Secretary's Report

• Approval of SC3 07-2 Meeting Minutes

Glen noted that Craig Sellers' name was misspelled. A motion was made by Ted and seconded by Glen to accept the minutes of the Aug, 2007 meeting in Monterey pending corrections. Motion passed unanimously.

• Action Item Status

All open action were reviewed. Glen asked if we need to do anything with EMI/RFI after reading the NRC white paper that Peter supplied. Discussion followed concerning existing standards and guidelines in the industry. No further action is warranted at the subcommittee level as this would be considered a design function and would belong to another subcommittee. Current Action Items status can be found in Attachment 1 (Action Items).

• SC3 Membership

Hamid Heidarisafa and John Taylor have not been to a SC-3 meeting for about 4 meetings. George took an action to contact them. (New Action Item 08-1-A,B).

Brij had previously informed the subcommittee that George Kuhn would be replacing him but he hasn't come to any meetings. Dave had an action to talk to Mr. Kuhn for future meeting attendance (Old Action Item 07-2-B). Since Dave is not here, Rachel will follow up with him on the action.

Guests Jim Parello, Craig Sellers, Tom Crawford and Yvonne Williams who were present were considered for membership. Chairman Ballassi addressed these prospective new members to see if they intended to stay on as SC-3 members and all agreed. George then appointed them as SC 3.0 members.

MEETING ATTENDANCE (Rolling 8 meetings)

Name	04-02	05-01	05-02	06-01	06-02	07-01 Ft.	07-02	08-01
		Las	San		Williams	Lauderdale	Monterey	San
(20 members)	Chicago	Vegas	Francisco	Phoenix	burg			Antonio
George A. Ballassi	P	P	P	P	P	P	P	P
Tom Crawford	-	-	-	-	-	-	-	P
Ali Daneshpooy	-	-	-	-	-	-	P	P
Larry Gradin	-	-	Guest	-	-	P	P	A
Rachel Gunnett	-	-	-	-	-	P	P	P
Hamid Heidarisafa	P	A	P	P	A	A	A	A
David A. Horvath	P	P	P	P	A	P	P	A
Peter J. Kang	Guest	P	P	P	P	A	P	P
Jacob Kulangara	-	-	-	-	-	-	P	A
James K. Liming	P	P	P	P	P	P	P	P
Jim Parello	-	-	-	-	-	-	Guest	P
Ted Riccio	P	P	P	P	P	P	P	P
Mansoor	P	A	A	P	A	P	P	P
Glen Schinzel	P	P	P	P	P	P	P	P
Owen Scott	-	-	-	-	-	-	P	P
Craig Sellers	-	-	-	-	-	-	Guest	P
John Stevens	-	-	-	-	-	-	P	P
John Taylor	A	A	A	P	A	A	A	A
Yvonne Williams	-	-	-	-	-	-	-	P
Kiang Zee	-	-	-	-	-	-	-	P

P means Present A means Absent

The secretary pointed out that we could use more utility members in the balance of membership. The current breakdown of SC 3 members by category is as follows:

<u>Utility</u>	AE/Consultant	Gov't/National Labs	Other	Total	
4	10	2	3	19	

Discussions were held on working group membership and the number of members required by IEEE for consensus standards. George reminded all present that we should work on increasing active membership and to ensure we follow up on all contacts. A proposal to change the member categories was also discussed but this hasn't been finalized as of the meeting time.

The SC-3 roster is on <u>Attachment 2</u>. The current SC-3 and working group rosters are also on the IEEE/NPEC website at URL: http://grouper.ieee.org/groups/npec/private/sc3/sc-3.html: user name: password:

• Alligator Fund

See Attachment 3

3.0 SC-3 Chair's Report

• Succession plan for subcommittee and working groups

George explained that he has an open action on the NPEC to provide a succession plan for the subcommittee and its working groups. After some discussion he decided to report the chair, vice chairs, etc of the subcommittee and its working groups,

• Reordering of subcommittee and working groups meetings

Chairman George wanted to discuss management of two working groups versus the one we used to have before WG 3.3 was created. Various options were discussed including when the subcommittee meets, having parallel or series working group meetings with full or partial members present. A discussion on teleconference meetings ensued with a general consensus that these type of meetings are not suited given the variety of companies involved. Also discussed was participation, especially via e-mail during the months between meetings. All members should work at responding to e-mail requests from committee and working group members in a timely fashion. Also discussed was having a standing section of the status of subcommittee standards in the minutes.

• Participation in industry Nuclear Risk Management Coordinating Committee Glen described the formation of a Nuclear Risk Management Coordinating Committee(NRMCC) with several groups involved including ANS, ASME, NRC, NEI, but without real representation from IEEE. One of the purposes of the NRMCC is to provide some coordination between various industry standards. That is one reason why IEEE need to participate. Glen explained that he recommended that the IEEE vice-chair become the standing IEEE member of NRMCC. This will be addressed in the AdCom meeting.

• Additional Standards

The chairman brought forth 2 retired standards for consideration of reactivating them per AdCom request.

Standard 415 on preoperational testing of power systems currently is retired. The subject of this standard is covered in Std 336 so there is no need to reactivate 415.

Standard 498 on calibration control of Measuring and Test Equipment for construction and operation is also retired. SC3 consensus on this is that the subject is covered by other standards and regulations so there is no value to revive it.

A third non-NPEC standard 1106 on NiCad batteries was brought forth to see if it should be a NPEC standard. There is nothing uniquely nuclear about this standard so it should not be a NPEC standard.

• Future Meeting Locations and Frequency

The next SC-3 meeting is scheduled to be held at the Four Points Hotel by Sheraton, 1926 Lake Shore Boulevard West, Toronto, Ontario, Canada, on July 15, 2008 with working group(s) also meeting on July 14. (NPEC will meet on Wed. July 16.

The negotiated room rate is \$ 129 per night (single or double). The cut-off date for reservation is June 13, 2008. Failure to reserve rooms before the cut-off date will result in penalties to NPEC. Therefore, you are requested to make your reservations before June 13, 2008 by calling 416-766-4392 or 800-463-9929 (Make reference to IEEE when making reservations). Also please make sure that all attendees have a valid passport to travel to Toronto, Canada. Further, if you need assistance, such as an invitation letter for attending this series of meetings, please contact me ASAP and an invitation letter will be provided.

4.0 Working Group Reports

- 3.1 The working group met on Jan. 21 in San Antonio with the subcommittee. Schedules for revision of standards 336 and 338 were discussed. The working group agreed on PAR contents for 336. Ted will incorporate and get it out to the members for final consensus after the meeting before sending it on to AdCom through SC3 Chairman Ballassi.
- 3.2 The working group met twice in 2007 and most recently in Richmond, VA on January 8, 2008. Meeting minutes are on the website. The next meeting will be in San Francisco at PG&E offices on May 28-29. The current plan is to preview P692 at the SC-3 meeting in Toronto and hopefully also at the subsequent NPEC meeting. IEEE Std 692-1997 (Standard Criteria for Security Systems for Nuclear Power Generating Stations) was reaffirmed in 2005. Later that year, on September 22, 2005 a PAR was approved to revise and update the standard. Specifically, this update will:
 - a. Resolve comments from the Illuminating Engineering Society of NorthAmerica related to security lighting approaches and requirements,b. Consider any relevant technological developments in the security area since the previous revision,

- c. Expand the definitions to include terms descriptive of design features discussed in the standard (for example: seismic magnetic buried lines),
- d. Improve the consistency of the way in which design basis and its associated documentation are addressed,
- e. Reevaluate where current prescriptive requirements can possibly be replaced with performance requirements,
- f. Maintain flexibility and consistency with any current industry and regulatory initiatives,
- g. Consider the addition of appropriate quality assurance guidance where relevant,
- h. Review and incorporate any other user feedback on IEEE Std. 692,
- i. Address security related assessment requirements.
- 3.3 Chairman Jim Liming called the meeting to order at about 1:15 PM with a welcome and review of agenda. There were a few new members and Jim thought that introductions were in order. Introductions went around the table with several guests present. These were:

Yvonne Williams from Bechtel SAIC Tom Crawford from Hurst Technologies Craig Sellers from Alion Science & Technology

He felt that the working group should have a vice-chair to maintain continuity in his absence. John Stevens volunteered to be the vice-chair.

Jim reviewed the agenda. The agenda was accepted without any changes.

Approval of WG 3.3 07-2 Meeting Minutes

Glen Schinzel had some minor comments on the meeting minutes. A motion was made by Ted Riccio and seconded by Glen Schinzel to accept the minutes of the August, 2007 meeting in Monterey pending corrections. Motion passed unanimously.

WG 3.3 Membership

Jim stated that those members in attendance whose names were not in the membership roster being passed around and were interested in becoming members of WG 3.3 should provide all their details on the sheet. He volunteered to provide letters of recommendation to those who needed it to support membership to the working group. Ken Miller from the NRC was a no show. Peter Kang still represented the NRC. Peter recommended that it would be prudent to get somebody from the PRA branch. Mansoor Sanwarwalla will discuss with Satish Agarwal regarding NRC representation. It is planned to bolster the membership roster with additional new members. Jim Liming will contact former WG 5.3 members via email inviting them to join the WG 3.3. Existing members were encouraged to draft new members with PRA/Electrical background.

Working Group was broken into 3 sub-teams for the three standards. The 3 sub teams are:

For Standard IEEE-352

- 1. Jim Liming
- 2. Craig Sellers
- 3. John Stevens
- 4. Owen Scott
- 5. Kang Zee

For Standard IEEE-577

- 1. Ali Danesphooy
- 2. Peter Kang
- 3. Yvonne Williams
- 4. George Ballasi

For Standard IEEE-933

- 1. Mansoor Sanwarwalla
- 2. Glen Schinzel
- 3. Rachel Gunnett
- 4. Ted Riccio
- 5. Dave Horvath
- 6. Tom Crawford

Working Group 5-Year Plan

The goal of WG 3.3 is to get all three standards approved by 2009. To be successful the revisions should be kept very basic. Any recommended major changes can be addressed in the next revision. In Jim Liming's opinion, the standards should as a minimum be revised to overlay the 1E/non-1E or safety related criteria with risk insight to determine safety significance. These safety significance criteria would generally be applicable at the component level.

The three standards for which the WG is responsible will be revised simultaneously. The minimum requirements would be to bring the standards to par with the latest style guide and correct any errors, spelling, typographical, etc. Jim recommended adding a bibliography to provide additional references.

Jim Liming will draft the 5-year plan for the working group and distribute to the members. The requirements would be to pre-review the standards and initiate changes before the next revision cycle. This would keep the WG ahead of NPEC. The WG will try to get into a cycle for revising the standards.

NPEC Standard Schedule/Status lists the status of all the NPEC standards. IEEE-1587 was another IEEE PRA standard that needs to be looked into. Mansoor will obtain the latest revision of the schedule for the next meeting. IEEE-500 was another standard related to risk that needed updating. This required a huge effort that could not be done wholly on a volunteer basis. However, there was no funding basis to undertake this task and NRC would not support/sponsor it. The WG would try to define a narrower scope and table the idea to SC-3 to convince NPEC to sponsor revision of the standard.

Creation of PAR

Draft copies of the PARs for all the three standards had been emailed to the members. The draft PARs for the 3 standards were reviewed and finalized for submission to NPEC for approval.

3.4 Working Group 3.4 is inactive at this time – no report.

5.0 Liaison Reports

- NRC Liaison Report Peter Kang with the Office of New Reactors presented the NRC report. See Attachment 4
- ASME Liaison Report Glen Schinzel gave the ASME report. See <u>Attachment 5</u>
- NEI/EPRI Liaison Report Glen Schinzel gave the NEI report. See Attachment 6

6.0 Old Business

• Status of white paper on integration of "Risk Informed Methodology" into IEEE.

George described the white paper on Subcommittee recommendations for incorporating risk into IEEE standards. Development of white paper Option C into a standard was discussed with Chairman Ballassi assigning it to Working Group 3.1 but acknowledging that it could be reassigned in the future.

• Update on standard revisions (5 year cycle)

George explained the process of standard revision from Project Authorization Request (PAR) to ballot and approval. The current status is:

1205 - reaffirmed

336 – due Sept 2010

338 – due Dec 2010

352, 577, and 933 – due Dec 2009

Also discussed was adding a section in the minutes for current standard status. This will be Attachment 7

7.0 New Business

Jim Liming proposed that the word "risk" be included in SC3 and the working groups. After discussion, Jim moved to include the word "risk" in the SC3 name. Seconded by Ted and the motion passed. George will need to get NPEC approval for this to happen. Working groups can rename themselves without NPEC approval.

Yvonne suggested that the term "1E" be addressed as it relates to non power plant facilities such as Yucca Mountain where the term "important to safety" is typically used.

Bob Locurto and Mark Walsh from Washington Group came in to explain that their company is interested in supporting the industry and is willing to offer support of one or more employees in SC3 and/or working groups.

The SC3 Operating Guide is included for reference in <u>Attachment 8</u>.

Meeting adjourned at 12:05 PM.

Prepared by Ted Riccio SC-3 Secretary.

ATTACHMENTS

Attachment 1 Double click below	Attachment 2 Double click below	Attachment 3 Double click below	Attachment 4 Double click below	
SC3 Action Items	SC3 Roster	ALLIGATOR FUND	NRC Liaison	
Attachment 5	Attachment 6	Attachment 7	Attachment 8	
Double click below	Double click below	Double click below	Double click below	
ASME Liaison	NEI EPRI Liaison	SC-3 Standards Status and Schedule	SC 3 Operating Procedure	