

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

**Meeting 07-1
Monday-Tuesday, Jan. 22-23, 2007
Ft. Lauderdale, Fl.**

Members Present: George Ballassi (Chair) Mansoor Sanwarwalla
 Dave Horvath Jim Liming
 Jim Redmon Ted Riccio (Secretary)
 Glen Schinzel (Vice Chair)

Members Absent: Hamid Heidarisaifa Peter Kang
 John Taylor Brij Bharteey

1.0 Introduction

• **Opening Remarks**

Chairman George Ballassi called the meeting to order at 1:50 PM Jan 22. No introductions were needed since this was done in the morning with WG3.1. Three guests from the 3.1 working group meeting, Rachel Gunnett from Advent Engineering, Larry Gradin from Integety Solutions and Jim Parello from Westinghouse remained present for the subcommittee meeting. In addition, two more guests, George Kuhn from Spectrum / STS and Bob Locurto from Washington Group arrived during the meeting.

• **Meeting Agenda**

George announced that he wanted to get through the agenda to New Business as quickly as possible because he expected New Business to take some time. All members reviewed the agenda and agreed that no changes were needed.

2.0 SC-3 Secretary's Report

• **Approval of SC 06-1 Meeting Minutes**

Glen noted that he had some editorial corrections for the SC3.0 Williamsburg minutes. A motion was made by Glen and seconded by Jim R. to accept the minutes of the July, 2006 meeting in Williamsburg pending corrections from Glen. Motion passed unanimously.

• **Action Item Status**

All open action were reviewed. Updates can be found in the Closure/Comments column. See [Attachment 1](#) (Action Items).

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• **SC3 Membership**

Because Dave H. committed to support Rachel Gunnett and Larry Gradin was present for the second time, the subcommittee proposed to accept them as members. A motion was made by Ted and seconded by Glen to accept them as members. Motion passed unanimously.

MEETING ATTENDANCE

Name	03-02 Boston	04-01 San Clemente	04-02 Chicago	05-01 Las Vegas	05-02 San Francisco	06-01 Phoenix	06-02 Williams burg	07-1 Ft. Lauderdale
George A. Ballassi	X	X	X	X	X	X	X	X
Brij Bharatey	X	A	X	X	X	X	X	A
<u>Larry Gradin</u>	-	-	-	-	Guest	-	-	X
<u>Rachel Gunnett</u>	-	-	-	-	-	-	-	X
Hamid Heidarisaafa	X	A	X	A	X	X	A	A
David A. Horvath	X	A	X	X	X	X	A	X
Peter J. Kang	-	-	Guest	X	X	X	X	A
James K. Liming	X	X	X	X	X	X	X	X
Mansoor Sanwarwalla	A	A	X	A	A	X	A	X
Jim Redmon	X	X	A	X	X	X	X	X
Ted Riccio	X	X	X	X	X	X	X	X
Glen Schinzel	X	X	X	X	X	X	X	X
<u>John Taylor</u>	X	X	A	A	A	X	A	A

X means Present A means Absent

The current breakdown of SC 3 members by category is as follows:

<u>Utility</u>	<u>AE/Consultant</u>	<u>Gov't/National Labs</u>	<u>Other</u>	<u>Total</u>
4	6	3	0	13

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: [REDACTED] password: [REDACTED].

3.0 SC-3 Chair's Report

- George Stated that he will not give a report at this time but will cover the items as we progress through the meeting. Below are the items that would be included in the report.
- George presented members with a set of operating rules (Operations Reference) that Subcommittee 4 (Auxiliary Power) adapted. This is essentially written operating guidelines or a “bylaws” document. Mansoor took an action to review it and make recommendations for SC 3.0 applications the next meeting (07-2). See [Attachment 1](#) (Action Items).

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- During the meeting, Dave reported that the NRC will revise the standard review plan by the end of March.
- Future Meeting Locations and Frequency
The next meeting is scheduled to be held in Monterey, California on August 27-28. It is scheduled to be held in conjunction with the Human Performance, Root Cause, and Trending (HPRCT) workshop.

Place: Monterrey Marriott, 350 Calle Principal, Monterey, California 93940
Phone: toll free 888-236-2427 Local 831-649-4234

The block of rooms is reserved under IEEE / Human Factors and the negotiated rate is \$159.00 for a regular room and \$199.00 for a water view. The negotiated rate will apply Between Fri Aug 24 and Fri Aug 31. Price does not include a 10% tax and \$1.16 fee per night. Cancellation policy is 48 hours prior to arrival. The hotel recommends booking early as the rooms may fill up prior to the August 3 cutoff date. The reservation link is:

<http://marriott.com/property/propertypage/mryca?groupCode=IEFIEFA&app=resvlink>

Parking is not free. The cost is \$17.00 per night, valet parking only.

The 2008 winter meeting is expected to be in San Antonio, Texas.
The 2008, summer meeting is expected to be in Toronto.

4.0 Presentations

Ted passed out a short Power Point presentation explaining a dilemma associated with the Class 1E label and what to do about risk ranking equipment under 10CFR50.69. See [Attachment 2](#) (Presentations)

5.0 Working Group 3.1 (Testing) Report

WG 3.1 is responsible for maintenance of IEEE Std 336, “Guide for Installation and Testing for Class 1E Power, Instrumentation, and Control Equipment at Nuclear facilities” and IEEE Std. 338, “Standard Criteria for the Surveillance Testing of Nuclear Power Generating Station Safety Systems”.

This report was covered in the previous Working Group 3.1 meeting.

6.0 Working Group 3.2 (Security) Report

WG 3.2 is responsible for maintenance of IEEE Std 692, “IEEE Standard Criteria for Security Systems for Nuclear Power Generating Stations”.

Dave is starting to reconstruct the working group to address revision of 692. He asked two members to look into archiving it as suggested by NPEC. The results were one yes and

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another no. There is an active PAR to update it. During the meeting, Dave talked to a NRC security staffer about updating Std 692. Dave reported that the staffer would like to see it updated. The chairman will work on updating it.

7.0 Working Group 3.3 (Reliability) Report

WG is responsible for maintenance of IEEE Std 352 “IEEE Guide for General Principles of Reliability Analysis of Nuclear Power Generating Station Safety Systems”, IEEE Std 577 “IEEE Standard Requirements for Reliability Analysis in the Design and Operation of Safety Systems for Nuclear Facilities”, and IEEE Std 933 “IEEE Guide for the Definition of Reliability Program Plans for Nuclear Power Generating Stations”.

The working group was formed during the meeting so there is no report at this time.

8.0 Working Group 3.4 (Aging) Report

WG 3.4 is responsible for maintenance of IEEE Std 1205 “Guide for Assessing, Monitoring, and Mitigating Aging Effects on Class 1E Equipment Used in Nuclear Power Generating Stations”.

a. P1205-2000 Corrigendum 1 was balloted successfully on Feb 7, 2006 with a 89.8% response rate (i.e., 44 of 49 responded) and 100% approval.

IEEE Std 1205-2000 Cor 1-2006 was subsequently approved by IEEE RevCom and published on March 10, 2006.

This corrigendum was then incorporated into IEEE Std 1205-2000 Second Printing published March 30, 2006.

b. IEEE Std 1205-2000 Second Printing was balloted for reaffirmation on November 9, 2006. The response rate was 79.7% (i.e., 47 of 59 responded) with an approval rate of 95.7%. There were 2 negative balloters (out of 47) and a total of 11 comments. The next steps will be to assess the comments, contact the balloters, and conduct a recirc ballot

9.0 Liaison Reports

- NRC Liaison Report – Peter Kang from the NRC was not able to attend so there was no NRC report. However, the NPEC NRC Liaison report is attached in its place. See [Attachment 3](#)
- ASME Liaison Report – Glen Schinzel gave the ASME report. See [Attachment 4](#)
- NEI/EPRI Liaison Report – Glen Schinzel gave the NEI report. See [Attachment 5](#)

10.0 Old Business

George will present the white paper on integration of “Risk Informed Methodology” to IEEE to the AdCom meeting.

Under status of a new proposed standard to address the separation of Class 1E equipment into high and low safety significance Ted gave a short presentation. See [Attachment 2](#) (Presentations).

There were two agenda items related to what to do with 3 new reliability standards and discussion of forming a working group for them. After discussions concerning these items, an motion was made by Jim L. to form a new working group (3.3) to oversee the reliability standards. Glen seconded the motion. Motion passed unanimously.

11.0 New Business

George noted that we are at a crossroads with the Risk Informed white paper, 338 almost complete and acquisition of the 3 new reliability standards. As such, he would like to reorganize to help manage the upcoming work. He suggested that it might be best if the same person is not chairman of the subcommittee and working group at the same time and that he would like to step down as chairman of Working Group 3.1. Mansoor volunteered to become chairman of the working group. Ted also volunteered. Mansoor stated that he was comfortable with that. It was felt that Ted’s background with the working group would be beneficial as chairman. All agreed and George selected Ted as chair.

For the new working group just formed, Jim L. volunteered as chairman and George appointed him to that position. Dave noted that if the working group is considering a PAR, it must have at least 5 members. (Post meeting note: IEEE requires minimum of 10 WG members).

Under discussions of new standards that might be needed for new construction, revival and updating of Std 500 (IEEE Guide to the Collection and Presentation of Electrical, Electronic, Sensing Component, and Mechanical Equipment Reliability Data for Nuclear-Power Generating Stations) was brought up. An action item resulted with Dave and Jim L. to work on a proposal to update it. See [Attachment 1](#) . During the discussion, a standing expectation was developed for working group chairmen to review need for standards for new plants.

The need for a Main Generator testing standard was discussed. Glen explained a near miss at STP where a plant trip was averted with seconds to spare. Glen will check with STP electrical group to see if there is a need for testing of Main Generator protection circuits.

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Discussions were also held about resolving security standard (692) questions. These are explained in the WG 3.2 report above.

Ted presented an argument of NEI creating documents that serve the same purpose as standards. After some discussion, Glen took an action to discuss with NEI ways of opening communications between IEEE and NEI.

Glen noted that the NPEC letterhead needed to be revised to include reliability in the SC3 grouping.

Dave provided some insight into an earlier comment which speculated that the NRC supplied some funding to revise an ASME standard and that they may do the same with Std 500. He talked to Satish Aggarwal of NPEC and SC2 who noted that the NRC supplied funding for an ASME project, but it wasn't a standard. He also reported that the General Accounting Office had problems with government funding of standards. He suggested that we try private sources for funding.






Glen reported about the PES/NPEC letter sent to the NRC on incorporating risk insights into 10CFR Part 53. A reply was sent back to the NRC from Subcommittee 3 which was not reviewed by Subcommittee 3. Glen noted that the time frame for response was very short but the response was clear that it was a draft response and not a consensus of NPEC. He noted that there is a opportunity to improve the process for this sort of thing. Dave will bring it up at the NPEC meeting.

Dave mentioned that the web site needs to be updated and that he will take the action to update it.

12.0

Dave motioned to adjourn the meeting. Seconded by Jim L. Motion carried and the meeting adjourned at 3:15 PM on Tuesday.
Prepared by Ted Riccio SC-3 Secretary.

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ATTACHMENTS

ATTACHMENT 1 Double click below	ATTACHMENT 2 Double click below	ATTACHMENT 3 Double click below	ATTACHMENT 4 Double click below	ATTACHMENT 5 Double click below
 SC3 Action Items	 Presentation	 NPEC NRC Liaison report	 ASME Liason Report	 NEI_EPRI Liaison Report