

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

**Meeting 06-02
Monday-Tuesday, July. 24-25, 2006
Williamsburg, Va**

Members Present: George Ballassi (Chair) Peter Kang
 Brij Bharteey Jim Liming
 Jim Redmon Ted Riccio (Secretary)
 Glen Schinzel (Vice Chair)

Members Absent: Hamid Heidarisaifa Jit Vora
 John Taylor Dave Horvath
 Mansoor Sanwarwalla

1.0 Introduction

• **Opening Remarks**

George Ballassi called the meeting to order at 1:35 PM. No introductions were needed since this was done in the morning with the two guests from the 3.1 working group meeting, Paul Gill from the NRC and Tony Paletta from Westinghouse remained present for the subcommittee meeting.

• **Meeting Agenda**

Because a presentation was to be made Tuesday at noon on the AP1000 reactor, the subgroup planned to do as much as it could today (Monday).

2.0 SC-3 Secretary's Report

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

The minutes of the Jan. 2006 meeting in Phoenix, Az. were approved by affirmative vote. Glen had suggested in a previous e-mail that we separate the guests from the member lists and not show them in historical lists. Ted will work on this during the period between 06-2 and 07-1 meetings.

• **Action Item Status**

All actions are closed as of this meeting. See [Attachment 1](#) (Action Items).

• **SC3 Membership**

Discussions were held on needing more members to support the additional standards transferred to SC 3.0 with additional expertise in reliability. Some actions to look for

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new members were not complete and were tabled for the next meeting. See [Attachment 1](#) (Action Items)

MEETING ATTENDANCE

Name	03-01 Houston	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
George A. Ballassi	X	X	X	X	X	X	X	X
Brij Bharteey	X	X	A	X	X	X	X	X
Hamid Heidarisaifa	A	X	A	X	A	X	X	A
David A. Horvath	X	X	A	X	X	X	X	A
Peter J. Kang	-	-	-	Guest	X	X	X	X
James K. Liming	Guest	X	X	X	X	X	X	X
Mansoor	A	A	A	X	A	A	X	A
Jim Redmon	Guest	X	X	A	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	X	A	A	A	X	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	4	3	0	11

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 reported that Std 692 “IEEE Standard Criteria for Security Systems for Nuclear Power Generating Stations” should be sent to another group due to lack of support and that it really doesn’t belong in Subcommittee 3.0 scope.
- ◆ Under NPEC Activities, the Chair also reported that the reliability standards (352, 557, and 933) have been officially transferred to Subcommittee 3.0

- Future Meeting Locations and Frequency

The next meeting is scheduled to be held in Ft. Lauderdale, Florida on Jan. 22-24

Place: Sheraton Yankee Trader, Ft Lauderdale, 321 N. Ft Lauderdale Beach Blvd
Phone: 1-888-627-7108 (toll free, indicate you are with IEEE group) The hotel number is 954-325-1717.

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[Although these minutes are sent after the cutoff date, all members should have already received the notice. Call 800-325-1717 for reservations.]

The negotiated rate will apply two days before and two days after the meeting.

Parking is not free. The cost is \$14.00 per night. If you don't want to drive, there is a \$8.00 shuttle from the Ft. Lauderdale airport, A \$20.00 cab fee from the Ft. Lauderdale airport, a \$30 shuttle or \$75.00 cab from Miami and a \$90.00 cab from the Palm Beach airport.

The 2007 summer meeting is expected to be in Monterey, Ca. on Aug. 26-27.

In 2008, the meetings are expected to be in San Antonio (winter) and Toronto (summer).

4.0 Presentations

Ted gave a presentation on the need for new standards for the new generation of plants after working with Jim R. to improve it from the last meeting. See [Attachment 2](#)
At this time, Paul Gill stated that a revised NUREG 800 (Standard Review Plan) is calling for use of existing standards.

Break – Glen motioned to break for the day. Brij seconded the motion which passed. The meeting adjourned for the night to resume at 8:15 the next morning, Tuesday, July 25.

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*”.

P336 was published on Feb 23

P338 will undergo the recirculation process. The working group will target Nov. 1 to submit to RevCom.

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*”.

No Activity and no report.

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7.0 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*”.

George noted that members should check with My Ballot to ensure they have voted for Std 1205-2000.

8.0 Proposed Working Group

The proposed WG would be 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*”.

9.0 Liaison Reports

- NRC Liaison Report – Adam Wilson gave the NRC report. 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

As per agreement from the last meeting, Jim L. completed an outline of a proposed position paper on integration of “Risk Informed Methodology” into IEEE standards and handed it to George who will present it at the next AdCom meeting. George will also present a need for a standard to address the separation of Class 1E equipment into high and low safety significance.

The 3 reliability standards were reviewed by members as discussed below to try to determine what, if any, action should be taken:

- ◆ Std 352 – Jim Liming review – Jim gave an overall description of the standard and explained the purpose. He noted that it is a good standard and can still be used today as written. The only suggestion was that it could be revised to link it with new PRA technology.
- ◆ Std 577 - Jim Redmon - Jim gave an overall description of the standard and explained the purpose. Jim noted that apparently, not many plants use the standard and that perhaps we should consider withdrawing it. Discussion continued on use of it to implement Low Safety Significance activities.

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- ◆ Std 933 – Glen Schinzel review – Glen gave an overall description of the standard and explained the purpose. He questioned if many plants actually used the standard for which the answer is unknown at this time. Ted noted that these standards might be useful for low safety significance components.

Jim L. noted that we need to address non safety related equipment that has high risk significance.

11.0 New Business

Under discussion concerning new reliability standards, the subcommittee members generally agreed that we need to for a new working group for those standards. George will present the proposal to AdCom and NPEC. George will compose an invitation letter to prospective members. All current members of the subcommittee should identify prospective new participants for the proposed working group.






It was also agreed that we need to keep the NRC involved and Paul Gill noted that NRC should continue to maintain representation.

How to handle the newly acquired standards was discussed. The subcommittee determined that we may need to re-affirm those standards that are close to the time limit if we haven't obtained the expertise needed to revise them first.

10.0

The meeting adjourned at 11:15 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	 NRC Liasion report	 ASME Liason Report	 NEI_EPRI Liaison Report