

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

**Meeting S06-01  
Tuesday, Jan. 24, 2006  
Phoenix, Az**

Members Present:           George Ballassi (Chair)       Brij Bharteey  
                                  Hamid Heidarisaafa         Dave Horvath  
                                  Jim Redmon                   Jim Liming  
                                  Glen Schinzel (Vice Chair)   Ted Riccio (Secretary)  
                                  Mansoor Sanwarwalla       John Taylor

Members Absent:           Bob Lofaro                    Jit Vora  
                                  Henry Leung                 Peter Kang

Guests:                    Adam Wilson

**1.0       Introduction**

• **Opening Remarks**

George called the meeting to order on Jan. 24 at 8:05 AM, welcoming all in attendance and guest Adam Wilson.

• **Meeting Agenda**

Glen suggested adding a session to discuss the new financial reporting criteria.

**2.0       Secretary's Report**

• **Approval of SC5-2 Meeting Minutes**

The minutes of the Aug, 2005 meeting, in San Francisco, were approved by affirmative vote. Jim L. recommended using the same font in all the attachments.

• **Action Item Status**

All actions are closed as of this meeting. A recommendation was made to maintain the action item list as an attachment. The secretary will start that with the minutes for this meeting. See [Attachment 1](#) (Action Items).

• **SC3 Membership**

George noted that we may need more members as a result of additional standards being transferred to SC3.0. Discussions followed on getting more members. Dave

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suggested that we get some members from the big fleet owners also. Some members volunteered to contact organizations for prospective members. See [Attachment 1](#) (Action Items)

### MEETING ATTENDANCE

Name	03-01	03-02	04-01	04-02	05-01	05-02	06-01
George A. Ballassi	X	X	X	X	X	X	X
Brij Bharteey	A	X	A	X	X	X	X
Hamid Heidarisaafa	A	X	A	X	A	X	X
David A. Horvath	X	X	A	X	X	X	X
Peter J. Kang (NRC Alt)	N/A	N/A	N/A	Guest	X	X	A
Henry Leung	A	X	A	A	A	A	A
James K. Liming	N/A	X	X	X	X	X	X
Bob Lofaro	X	X	A	A	A	A	A
Jim Redmon	N/A	X	X	A	X	X	X
Ted Riccio	X	X	X	X	X	X	X
Mansoor Sanwarwalla	A	A	A	X	A	A	X
Glen E. Schinzel	X	X	X	X	X	X	X
<u>John Taylor</u>	X	X	X	T	T	T	X
J. (Jit) T. Vora	A	A	A	A	X	A	A

X means Present A means Absent T means present by Teleconference.

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	5	1	15

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

- Discussion of leadership positions, WG and SC.  
George noted that NPEC has appointed him to SC3.0 Chair. John Taylor motioned that SC3.0 endorse George as chairman. Dave Horvath seconded. Motion passed in favor. Jim Liming motioned that Glenn Schinzel be Vice Chair. Motion also passed in favor.
- NPEC Activities-transfer of reliability standards  
George talked about the transfer of reliability standards to SC3, explaining that we have more expertise in the field and that the current ownership does not really want to keep them. The standards are 352, 557, and 933. The subcommittee also discussed the organizational aspects of owning more standards. Jim R, Jim L and Glen will review these standards for current condition and proposal for incorporating risk. ([Attachment 1](#)) The review will also include revision history. [Attachment 2](#) is an e-mail sent explaining

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the history of the standards. It is included in the minutes to preserve the historical aspect by virtue of the minutes.

- **Future Meeting Locations and Frequency**

The next meeting is scheduled to be held in Williamsburg, Va. on July 24-25, 2006 at the Woodlands Hotel & Suites.

George explained a little about the area and Williamsburg.

The rate is \$129.00 per night and the prevailing government rate will apply. There is a 10% tax. The room block will be held until Monday, June 5, 2006. Call 800-261-9530 for reservations at the group rate. The phone number serves several hotels so you will need to specify Woodlands Hotel & Suites. Internet reservations can be made at higher cost.

Rooms have 2 double beds. King beds are available in the suites at \$169.00 per night. There is no charge for parking.

The rate includes complimentary continental breakfast each day. The negotiated rate will apply three days before and three days after the meeting.

It is recommended that you book as soon as possible as this is the peak visitor season. Cancellation can be done up to 72 hours prior to date of arrival without penalty.

### **4.0 Presentations**

Ted gave a presentation on the need for new standards for the new generation of plants. After the presentation, members gave a number of suggestions for improvements. Jim R. will work with Ted to prepare the presentation for the July NPEC meeting. See [Attachment 3](#)

### **5.0 Working Group 3.1 (Testing) Report**

<p><b>WG 3.1 is responsible for maintenance of IEEE Std 336, “<i>Guide for Installation and Testing for Class 1E Power, Instrumentation, and Control Equipment at Nuclear facilities</i>” and IEEE Std. 338, “<i>Standard Criteria for the Surveillance Testing of Nuclear Power Generating Station Safety Systems</i>”.</b></p>
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P336 is in final stages of preparation for publishing.

P338 had over 100 comments from 62 balloters which we reviewed. Most comments were responded to with expectations to complete the task upon resumption of WG3.1 after the SC3.0 meeting.

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### **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”.**

- Reaffirmation of IEEE Std 692-1997 was completed in 2005.
- A PAR to update and revise IEEE Std 692 was approved by IEEE NesCom at its September 22, 2005 meeting.
- The working group is in the process of being reformed to support this revision.

Dave also mentioned that he is looking for volunteers to join the working group to support the revision.

### **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”.**

- A PAR to correct three minor errors in IEEE Std 1205-2000 through the corrigendum process was approved by IEEE NesCom on September 22, 2005.
- A draft corrigendum was prepared and submitted for its mandatory IEEE editorial review in December.
- Changes to the Corrigendum to address editorial comments were completed by the end of December 2005.
- A ballot group of 49 eligible balloters was formed and confirmed to be balanced on January 7, 2006.
- Ballot was initiated on January 8, 2006.
- As of January 22, 2006, 45% (22 balloters out of 49 eligible) had voted and 100% had voted for approval.

### **8.0 Liaison Reports**

- NRC Liaison Report – Adam Wilson gave the NRC report. See [Attachment 4](#)
- ASME Liaison Report – Glen Schinzel gave the ASME report. See [Attachment 5](#)
- NEI/EPRI Liaison Report – Glen Schinzel gave the NEI report. See [Attachment 6](#)

### **9.0 New Business**

A discussion was held on how to recognize Surin. A recommendation was made and agreed upon to collect money for his family to donate, as desired, in his name. A collection followed and George agreed to send the money and a letter to that effect.

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A discussion was held concerning SC-3 taking on the reliability standards. George presented a proposed scope for SC-3 and suggested the subcommittee refine it. The result is:

**Treatment of all matters relating to the operation, surveillance, maintenance, testing, and the reliability of safety-related systems and equipment in nuclear power generating stations. Included is the development of system requirements and methods for monitoring, maintaining, and testing of safety-related equipment during construction, plant startup and operation, reliability, the coordination of nuclear standards, the sponsorship of technical sessions, the preparation of and review of technical papers, the dissemination of information to the industry on new developments and advancement of engineering science with students and educational institutions.**







New IEEE financial reporting requirements were discussed. The Subgroup Secretary will be responsible for complying with the new requirements.

**10.0**

The meeting adjourned at 12:25 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
 F:\IEEE\IEEE Secretary\SC3 Action	 C:\Data\Text\IEEE RB Testing\IEEE Secr	 C:\Documents and Settings\Ricciofam\My	 C:\Data\Text\IEEE RB Testing\IEEE Secr
Action Items	Reliability Standards	Presentation	NRC Liaison Report
ATTACHMENT 5 Double click below	ATTACHMENT 6 Double click below		
 C:\Data\Text\IEEE RB Testing\IEEE Secr	 C:\Data\Text\IEEE RB Testing\IEEE Secr		
ASME Liaison Report	NEI/EPRI Liaison Report		