

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

**Meeting 07-2  
Monday-Tuesday, Aug. 27-28, 2007  
Marriott Monterey  
Monterey, Ca.**

Members Present: George Ballassi(Chair)                      Jim Liming  
Larry Gradin    Ted Riccio(Secretary)  
Rachel Gunnett    Mansoor Sanwarwalla  
Dave Horvath    Glen Schinzel (Vice Chair)  
Peter Kang

Members Absent: Hamid Heidarisafa                              John Taylor

**1.0 Introduction**

• **Opening Remarks**

Chairman George Ballassi called the meeting to order at 8:15 AM Aug 27 in the Santa Barbara room. He announced that this would be an important meeting and that his goals for the day were to resolve where SC 3.0 was going and that we need to determine how to get NPEC action on the white paper, especially Option 3.

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

Jim Parello from Westinghouse  
Suresh Channarasappa from Westinghouse  
Mark Walsh from Washington Group  
Ali Daneshpooy from Exponent  
Graig Sellers from Alion Science and Technologies  
John Stevens from H F Controls  
Owen Scott from Southern Nuclear (did not arrive until lunch break)  
Jacob Kulangara from Bechtel (did not arrive until 10:30 break)

George also noted that IEEE is strengthening rules on working groups maintaining 10 members each.

• **Meeting Agenda**

Dave Horvath moved to accept the agenda with Jim Liming seconding. Motion passed unanimously.

**2.0 SC-3 Secretary's Report**

**IEEE NPEC SC-3 Meeting 07-2 Minutes**

• **Approval of SC3 07-1 Meeting Minutes**

Glen noted that he had some typographical corrections for the SC-3 Ft. Lauderdale minutes. A motion was made by Glen and seconded by Jim Liming to accept the minutes of the Jan, 2007 meeting in Ft. Lauderdale pending corrections. 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).

• **SC3 Membership**

Brij Bharteey and Jim Redmon resigned from SC-3. George noted that we need to recognize them and took an action to do that (Action Item 07-2-A).

Brij had previously informed the subcommittee that George Kuhn would be replacing him but he didn't come to this meeting. Dave will talk to Mr. Kuhn for future meeting attendance (Action Item 07-2-B). In addition, we are still looking for a member from Erin Engineering. Craig Sellers volunteered to take an action for that (Action Item 07-2-C).

Although acceptance of new members took place on Tuesday, the minutes are recorded here under membership. At that time Ali Daneshpooy, John Stevens, Owen Scott, and Jacob Kulangara were present in the meeting. Chairman Ballassi addressed these prospective new members to see if they intended to stay on as SC-3 members and all agreed. The prospective members left the room and Glen motioned to accept them as new members. Mansoor seconded and motion carried unanimously. Glen noted that we should look at membership breakdown which is shown below.

MEETING ATTENDANCE

Name	04-01 San Clemente	04-02 Chicago	05-01 Las Vegas	05-02 San Francisco	06-01 Phoenix	06-02 Williams burg	07-01 Ft. Lauderdale	07-02 Monterey
George A. Ballassi	X	X	X	X	X	X	X	X
Ali Daneshpooy	-	-	-	-	-	-	-	X
<u>Larry Gradin</u>	-	-	-	Guest	-	-	X	X
<u>Rachel Gunnett</u>	-	-	-	-	-	-	X	X
Hamid Heidarisafa	A	X	A	X	X	A	A	A
David A. Horvath	A	X	X	X	X	A	X	X
Peter J. Kang	-	Guest	X	X	X	X	A	X
Jacob Kulangara	-	-	-	-	-	-	-	X
James K. Liming	X	X	X	X	X	X	X	X
Ted Riccio	X	X	X	X	X	X	X	X
Mansoor	A	X	A	A	X	A	X	X
Glen Schinzel	X	X	X	X	X	X	X	X
Owen Scott	-	-	-	-	-	-	-	X
John Stevens	-	-	-	-	-	-	-	X
<u>John Taylor</u>	X	A	A	A	X	A	A	A

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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	8	3	0	15

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 contacts are followed up on.

The SC-3 roster is on [Attachment 2](#). 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]. (Action Item 07-2-G)

- **Alligator Fund**

See [Attachment 3](#)

### **3.0 SC-3 Chair's Report**

- No report. Items will be addressed as we progress through the meeting.
- Future Meeting Locations and Frequency  
The next SC-3 meeting is scheduled to be held in San Antonio, Texas on January 22 with working group(s) also meeting on Jan. 21.

Place: Radisson @ Downtown Market Square, San Antonio, TX.

The negotiated room rate for these meeting dates is \$ 103 (single) and \$ 113 (Double).

The negotiated group rates would be available up to two days prior and two days after the meeting dates. The reservations should be made on an individual basis by calling 1-800-333-3333 or 1-888-201-1718 or directly with the hotel (210-224-7155) or via internet at [radisson.com](http://radisson.com). You should request the group rate for IEEE. The cut-off date for reservation is December 20, 2007.

The above rate includes: (1) Complimentary High Speed Internet in all guest rooms and wireless access in public areas; (2) Complimentary covered parking; and (3) Courtesy shuttle to all downtown attractions.

The 2008, summer meeting is expected to be in Pittsburg.

The 2009 winter meeting is expected to be in Charleston, NC or Juno Beach Fl.

#### **4.0 Liaison Reports**

- NRC Liaison Report – Peter Kang announced that he is now with the Office of New Reactors, and presented 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](#)

#### **5.0 Old Business**

Because the subcommittee was meeting on Monday, Chairman George Ballassi described the usual sequence of working group and subcommittee meetings for the benefit of the guests present. The usual sequence is to have the working groups meet on Monday and sometimes a partial day on Tuesday. The subcommittee usually meets on Tuesday and George attends the Ad Com (SC-1) meeting on Tuesday afternoon. This meeting is different because the working groups have not started any projects at this time and the subcommittee should determine where SC 3.0 is going. In addition, we need to determine how to get NPEC action on the white paper, especially Option 3 as described in the opening remarks.

- **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 that was presented to NPEC as requested. Four comments were received and were found to not substantially effect the recommendation. Discussions followed on how to get a NPEC decision on what to do with the white paper in a timely manner. George plans to address this at AdCom.

- **Consider Main Generator testing standard.**

Glen reported that he checked with STP electrical group on the need for development of a generator testing standard for protective relaying. It was explained that STP had a near miss due to improper calibration of protective relaying. The response was that they didn't see a need for one.

#### **NPEC Secretary Visit**

Satish Aggarwal, NPEC Secretary arrived to present NPEC expectations. He stated that by 2012 all IEEE standards shall be revised to support new plants. He committed NPEC support of the task. Discussion followed on status of each SC-3 standard. We will need to assure that all standards involved were actually under NPEC. SC-3 may be assigned one or more standards to meet IEEE goals. Satish then put on his NRC hat and asked what NRC can do to help SC-3. He then announced NRC liaison support for SC-3 and working groups:

Ken Miller will become liaison for SC-3.

Peter Kang will continue as liaison for WG 3.1

Deanna Zhang will continue as liaison for WG 3.2

Ken Miller will become liaison for WG 3.3

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Sheila Ray will become liaison for WG 3.4

Prior to lunch break, Dave announced that we have been updating the web site. He recognized Rachel for the good work she has been doing with it.

*Break for lunch at 11:50 AM*

*Meeting resumed at 1:15 PM*

### **6.0 New Business**

- Determine long range plans for SC 3.0 - (where do we see the subcommittee going – logistics of several working groups - parallel or series meetings, etc.)

George handed out NPEC Goals as an introduction to the activities we would be discussing. He also handed out a paper on the status of SC-3 standards. (Both on [Attachment 8](#))  
Dave noted that 1205 needs 5 or 6 typo corrections.

The chairman explained that the life of a standard in IEEE terms is 5 years and then went through the timelines of the various SC-3 standards. He talked about the Standards Association and explained the process of balloting standards.

George went through our standards and pointed out that 352 and 933 are the oldest and will probably need cleaning up and updating to revision status. In addition, we may be writing a new third standard and possibly be assigned one or more standards.

Discussions were held about the process of writing standards and the use of IEEE style manual which can be found at <http://standards.ieee.org/guides/style/>.

Dave noted that we may also end up with an EMI/RFI standard, with discussions following. It is possible that it may not be necessary because of a lot of other information already out. Dave noted that IEEE is wanting an EMI/RFI standard. Larry suggested that we talk to the experts within IEEE on developing EMI/RFI standard. Dave, Jim Parello and Suresh Channarasappa will go to SC6 meeting and discuss it there. We will add the subject to the next meeting agenda.

Ted proposed a plan to allow Technical Specification requirements to be placed in an owner controlled document similar to ASME code testing. He found that it would be difficult under current rules but came up with an intermediate plan. This would be a standard describing a method to determine testing requirements that is not specific to the reactor type or manufacturer. Ted took an action (07-2-D) to develop a road map as to how this could be accomplished.

Ted discussed the “IE dilemma” and what to do about it. Discussions evolved and there is a potential that the white paper, option 3, may be able to resolve the issue of use of treatment of class 1E in accordance with risk ranking.

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George stated that he will tell AdCom that we will work on a PAR (Project Authorization Request) for option 3.

Meeting dismissed at 5:25 PM for the day – will resume in the AM.

Meeting resumed at 8:10 AM

Dave reported on the meeting with SC-6 concerning EMI/RFI. He described 2 aspects of EMI/RFI, one being how to do testing and the other being determination of maximum values. He reported that the European standards were well developed in how to test but there was little for maximum values which may not be applicable in the U.S.A. Members of SC-6 were divided on the need for a standard. One suggestion was to “normalize” the annex in Std 603. Discussion followed. Peter will try to find the paper “EMI RG 1.180 History” that the NRC prepared concerning EMI/RFI issues (Action Item 07-2-E) and forward to Ted for distribution (Action Item 07-2-F). This paper is included with NRC Liaison Report ([Attachment 4](#)). George asked Ted to include a link for NUREG/CR-6782. The link is: <http://www.nrc.gov/reading-rm/doc-collections/nuregs/contract/cr6782/>. Discussions ended with placing the subject on the next agenda.

- Discuss and adapt new SC 3.0 business operating guide.

Mansoor explained that he combined SC-4 and NPEC operating guidelines to come up with the proposed SC-3 operating guidelines. The subgroup went through the proposal, recommended and agreed on changes that Mansoor will incorporate. He will then forward the document to Ted who will send it out with the minutes. ([Attachment 7](#))









There were no working group reports.

Meeting adjourned at 12:20 PM.

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
 SC3 Action Items	 SC3 roster	 ALLIGATOR FUND	 NRC Liaison Report
Attachment 5 Double click below	Attachment 6 Double click below	Attachment 7 Double click below	Attachment 8 Double click below
 ASME Liason Report	 NEI/EPRI Liaison Report	 SC 3 Operating Procedure	 Handouts