



ASC C63[®] SC5: Immunity Testing and Measurements
Approved Minutes for Tuesday, October 02, 2012
Costa Mesa, CA

Call to Order and Attendance

Chair Steve Whitesell called the meeting to order at 3:00 pm and circulated an attendance sheet for sign in. A quorum was present with 12 of 17 members in attendance.

The following SC5 members were present:

Steve Whitesell (Chair)	Don Heirman
Ed Hare (Vice Chair)	Dan Hoolihan
Jerry Ramie (Secretary)	Victor Kuczynski
Poul Andersen	David Schaefer
Stephen Berger	Jeff Silberberg
Andy Griffin	Dave Zimmerman

The following SC5 members were not present:

Masud Attayi	Rick Lombardi
Bob Hofmann	Werner Schaefer
Phil Keebler	

The following observers were also in attendance:

Randy Long	Dave Southworth
James Mills	Richard Worley

Opening Business

The Chair reviewed the draft agenda and asked if there were any additions or changes. A discussion on immunity standards applicable to the Smart Grid was proposed by Mr. Heirman and added as Agenda Item 9.1. Ed Hare moved to approve the agenda as modified. Don Heirman seconded, and the motion was unanimously approved.

The Chair displayed and reviewed the IEEE Patent related slides and other guidelines for the conduct of meetings. He asked if there was anyone aware of essential patents that should be made known. No one spoke up. He also asked if everyone understood the content of the slides. There were no requests for further explanation.

The Chair presented the fee schedule for participation in C63[®] standards work and reminded all in attendance of the need to pay their participation fees. He noted the change in fee structure for Working Group members to a one-time payment for the duration of a standards development project rather than an annual fee. No attendees were in arrears.

The Chair reviewed the draft minutes from the previous meeting and asked if there were any additions or corrections. There were none. Mr. Heirman moved to approve the minutes as presented. Mr. Hare seconded, and the motion was unanimously approved.

Review of Membership and Leadership

The Chair reviewed the existing SC5 membership list as found on the C63 web site and noted that he had received no applications for new membership. The Chair also noted the membership lists shown for the SC5 Working Groups and requested the WG chairs to provide an updated list if the information was not accurate.

The Chair noted that Philip Keebler was no longer able to serve as Secretary for SC5, but that Jerry Ramie had agreed to take on the role. The Chair then officially appointed Mr. Ramie to be Secretary and indicated that the parent C63[®] committee would be informed of the appointment.

Working Group Reports

C63.9 (Immunity of Audio Office Equipment) – This Standard was published in 2008. There is currently no active work, but the document will come up for its five-year review in 2013. Mr. Berger was the previous WG Chair. A brief discussion was held about whether the document should be revised, reaffirmed, or withdrawn. Mr. Berger indicated he believed the information in the document was still relevant and that it should probably be reaffirmed. A recommendation to the parent C63® committee on how to proceed will be made at the next meeting.

C63.15 (Immunity of Electrical and Electronic Equipment) – This Recommended Practice was inherited from SC1 after being published in 2010. There is currently no active work, but the document will come up for its five-year review in 2015. Don Heirman was the previous WG Chair.

C63.16 (ESD Testing Guide) – Mr. Worley and Mr. Staggs are serving as Chair and Vice Chair of the Working Group for this project. A PINS has been approved. Information unique to the withdrawn guide is being incorporated into a revision, along with new material. Mr. Worley has not completed his deliverable and indicated he would be willing to turn over his chair responsibilities if someone else would be willing to take on the task. No one came forward. Mr. Worley has created an internal Dell ESD testing procedure and is in the process of de-bugging it. Material from this internal procedure, without the photos of Dell products, will be made available for use by the WG in the C63.16 document. A technical illustrator was suggested to convert twelve photos to diagrams. This point will be brought up to the Steering Committee for funding. Mr. Hare suggested that a webinar meeting be set up within a month or so to look at Mr. Worley's draft. The draft will be circulated to WG members prior to the webinar.

C63.20 (Immunity of Equipment for Use in Nuclear Power Stations) – Mr. Berger and Mr. Keebler are serving as Chair and Vice Chair of the Working Group for this project. A PINS has been approved. Mr. Keebler no longer works at EPRI, which was the major driving force for initiating this project, and may not be able to continue. Mr. Berger indicated he believed that very little of the actual text for the standard has been created. Greater participation from EPRI and members of the nuclear power industry is necessary to make progress. EPRI will hold a nuclear EMC group meeting in Washington, DC in December. Mr. Whitesell felt we should make a presentation to that meeting emphasizing the need for industry participation. Mr. Berger agreed to do so. There are three individuals who would be good additions to the WG membership that Mr. Berger knows. Mr. Ramie offered to provide Mr. Berger with contact information for another person from Westinghouse/Pittsburgh. Mr. Berger noted that a year-old EPRI report on EMC stated that lightning and EMC problems cause 30% of the yearly shut-downs of nuclear power plants, so there is definite need for the standard. There are three technical reports from EPRI, including TR-102323 on Guidelines for EMC testing of Power Plant equipment, that currently exist and can serve as source material. The project will remain open for now, but a decision to withdraw it may be made at the next meeting if attempts to get increased nuclear power plant industry participants are not successful.

C63.24 (In Situ Immunity Evaluation) – Mr. Berger and Mr. Keebler are also serving as Chair and Vice Chair of the Working Group for this project. A PINS has been approved. Mr. Berger had requested the document be circulated to SC5 members just prior to this meeting to see if they felt it was ready to be recommended to the C63® parent committee for ballot. That was done. Two SC5 members provided comments pointing out several items in the document that should be changed. Mr. Zimmerman's comments were mostly editorial. Dave Schaefer volunteered to join the working group to help in addressing the concerns he has. The document was remanded to the working group with encouragement to meet via webinar in an effort to resubmit the document for SC5 membership review in approximately two months.

Other Old Business

There was no other old business.

New Business

Mr. Heirman brought up the subject of immunity standards applicable to the smart grid. C63[®] has not made its presence known in this area. Mr. Heirman indicated he was willing to work on developing a white paper pointing out how various C63[®] immunity standards can be applied to smart grid equipment. He agreed to head a task group for this effort. Mr. Hare and Mr. Ramie volunteered to be members of the task group. Mr. Heirman reminded the subcommittee that a list of smart grid applicable C63[®] standards had been created about three meetings ago and asked for help in locating that list. Mr. Whitesell agreed to do so. Mr. Ramie indicated the NIST-EMI Issues working group will soon release a report that compares the required testing for European utility equipment (IEC 61850-3) against what is required of American utility equipment. (C37.90.1, 2 & 3) and identifies five gaps in the requirements. Mr. Ramie will develop a presentation on the five gaps to give to the task group for inclusion in the white paper.

C63 Web Site Update

Mr. Hare indicated that improvements are on-going. Missing minutes have been located and will be posted to the web site. Very old minutes will be pulled off and archived. Current year and previous year minutes will be shown.

Action Item Review

Old Items

All action items from the previous meeting have been completed or deemed no longer necessary except for the following:

1. Richard Worley to circulate the latest draft of C63.16 to all members of the WG for comments.

New Items

1. A decision on whether to recommend revising, reaffirming, or withdrawing C63.9 is to be made at the next SC5 meeting.
2. C63.16 WG to hold webinar in about one month to review status of current draft.
3. Steve Whitesell to raise question of funding for converting approximately 12 photos into illustrations for the C63.16 document at the steering committee meeting.
4. Stephen Berger to raise issue of need for nuclear power industry participation in C63.20 work at December meeting of EPRI sponsored nuclear EMC group in Washington, DC.
5. Jerry Ramie to provide Stephen Berger with contact information for possible C63.20 participant from Westinghouse/Pittsburgh.
6. C63.24 WG to meet via webinar to address comments raised by circulation of Draft 1.7 document to SC5. Intent is to resolve comments and have document ready for reconsideration by SC5 in about two months.
7. Don Heirman to chair Task Group consisting of himself, Ed Hare, and Jerry Ramie to develop white paper on C63[®] standards relevant to Smart Grid equipment and present that paper to the Smart Grid community.
8. Jerry Ramie to develop presentation on five gaps between European and American testing requirements for Smart Grid equipment and provide it to Task group for inclusion in white paper.
9. Steve Whitesell to find list of C63 standards relevant to Smart Grid equipment that was developed about three meetings ago and provide it to Don Heirman for use by Task Group.

Next Meeting and Adjournment

The next meeting will be the week of May 6–9, 2013 at IEEE Headquarters in Piscataway, NJ.

The meeting was adjourned at 4:11 pm.