



ASC C63® SC5: Immunity Testing and Measurements
Approved Minutes for Tuesday, May 5, 2015
Embassy Suites Hotel, 6300 Earle Brown Drive, Brooklyn Center, MN 55430

Call to Order and Attendance

Chair Steve Whitesell called the meeting to order at 3:25 pm. An attendance sheet was circulated for sign in. A quorum was present with 11 of 14 members in attendance. There were also 5 observers.

The following SC5 members were present:

Steve Whitesell (Chair)
Ed Hare (Vice Chair)
Jerry Ramie (Secretary)
Poul Andersen
Andy Griffin
Don Heirman

Dan Hoolihan
Rick Lombardi (via WebEx)
David Schaefer
Jeff Silberberg
Dave Zimmerman

The following SC5 members were not present:

Masud Attayi (Excused)
Stephen Berger

Victor Kuczynski

The following observers were also in attendance:

Chris Dilay
Beth Hackett
Dheena Moongilan

Brad Moore
Randy Long

Opening Business

The Chair reviewed the draft agenda and asked if there were any additions or changes. There were none. The agenda was approved by consensus.

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 reviewed the draft minutes from the previous meeting and asked if there were any additions or corrections. There were none. The minutes were approved by consensus.

Review of Membership and Scope

The new guidelines for continuation of membership were presented and discussed. Failure to attend at least one of three consecutive subcommittee meetings or to respond to at least one of every two consecutive subcommittee email votes places your membership at risk. Participation via web conference is considered attending a meeting. Similar guidelines apply for working groups but may be modified if desired by a working group.

In reviewing the membership list to be forwarded to the main committee for approval, note was taken that Masud Attayi had missed three consecutive meetings. Don Heirman moved that his name not be included on the list recommended to the main committee for SC5 membership. Ed Hare seconded the motion. Following a discussion, the motion passed with Dan Hoolihan asking to have his negative vote recorded. Herb Mertel, a former SC5 Chair, has remained on the membership list as a member emeritus but has not participated in any meetings for several years. A decision was made to remove his name from the list.

A membership application and resume were received from Randy Long with Dave Zimmerman, Steve Whitesell, and Don Heirman identified as endorsing his application. Mr. Long was excused from the meeting while his application was discussed. Don Heirman moved and Ed Hare seconded that Mr. Long be accepted as an SC5 member. The motion passed unanimously. His name was added to the list (copy attached) being recommended to the main committee for approval.

Don Heirman moved, seconded by Jeff Silberberg, that the amended roster be submitted to the main committee for approval. The motion passed. [Mr. Attayi contacted the chair between the SC5 meeting and the main C63 meeting with a request that he not be dropped from SC5 membership with the understanding that he intended to attend the fall 2015 meeting. The Chair exercised his discretion to grant Mr. Attayi an excused absence and retain his name on the SC5 membership list recommended to the main committee.]

The scope of SC5 was reviewed. There was agreement that the main committee be advised that no changes are needed. The scope is as follows:

Subcommittee 5 is responsible for developing and maintaining new and existing standards for immunity testing techniques and associated instrumentation as requested by the Main Committee ANSI ASC C63®.

Review of Subcommittee Responsibilities – Working Group Reports

C63.9 (Immunity of Audio Office Equipment) – The document was reaffirmed in Oct 2014. A motion was passed at the Nov 2014 meeting to open new project to revise document. Andy Griffin agreed to serve as the new WG Chair. A PINS-C draft was shown and discussed. Dan Hoolihan moved, seconded by Don Heirman, to approve the PINS-C. The motion was carried unanimously. The chair asked for volunteers to be members of the WG. Don Heirman and Ed Hare volunteered. The chair will solicit for additional working group members.

C63.15 (Immunity of Electrical and Electronic Equipment) – A PINS-C for revising this Recommended Practice was approved at the Nov 2014 meeting. Don Heirman has agreed to lead the effort. A WG has been formed and is reviewing the 10 proposed updates to determine which should be included in the document. There are several automotive experts on the roster. Mr. Heirman is looking for more commercial expertise from testing labs.

C63.16 (ESD Testing Guide) – Steve Whitesell is serving as Chair of the WG. Draft 2.0 of the document was approved by SC5 email ballot for forwarding to the main committee with a request to form a ballot group. The MEC input and additional editorial cleanup were considered at the WG meeting held on Monday. Mr. Whitesell will bring a clean Draft 3.0 document to the main committee on Thursday with a request to submit it for ballot.

C63.24 (In Situ Immunity Evaluation) – No progress has been made on this document for several meetings. SC5 Chair Steve Whitesell sent an email with the history of the project, a copy of the latest draft (Aug 2012), and comments that were received on it to C63.24 WG, SC5, and C63 members on Jan 12. Comments were received from about a half dozen people, but no one stepped forward indicating a willingness to work on the project. The Chair recommended the project be dropped, but Don Heirman requested that the decision to do so be delayed until the next meeting to allow him to try to recruit volunteers. It was agreed that Mr. Heirman be allowed to see if he could revive interest in the project.

Other Old Business

SC3 Chair Poul Andersen has requested SC5's help in reviewing the immunity limits table in C63.12 and in suggesting any new immunity test procedures that should be added to that document. Now that we have C63.16 ready for ballot, we could provide some additional input on the unique test procedures now included (e.g., connecting charged peripherals to an EUT and connecting a charged EUT to grounded peripherals). But C63.12 has just finished a recirculation ballot and is presumably about ready to be submitted for publication. Inputs may be provided as ballot comments.

New Business

Jeff Silberberg discussed IEC 60601-1-2 as a safety Standard (the product doesn't need to actually work). The maintenance team is working on a technical report to address EMC performance of medical electrical equipment. That document will become IEC TR 60601-4-2. ESD testing of connector pins is an issue. Content from the draft C63.16 document was shared but not well received. Publishing C63.16 should improve acceptance.

C63 Web Site Update

Web content manager Jerry Ramie requested that SC and WG chairs police their sections of the C63® website for errors or omissions and report them for correction.

Action Item Review

Old Items

All action items from the previous meeting have been completed except for the following:

1. Steve Whitesell to provide status update on C63.12 limits table when C63.16 revision work becomes stable. [AI-18]
2. Andy Griffin to form Working Group for revising C63.9-2008 (R2014) and provide PINS for approval by the next meeting. [Completed except for PINS. WG Chair to solicit for additional WG members.] [AI-19]
3. Don Heirman to form Working Group to address items identified in C63.15 PINS-C presented at November 2014 meeting and draft an appropriate PINS for revising document. [Completed except for PINS.] [AI-20]

New Items

1. Jerry Ramie to add Randy Long and remove Masud Attayi and Herb Mertel from SC5 membership roster on the C63 web site. [Subsequently, a decision was made to retain Masud Attayi on the roster.] [AI-22]
2. Steve Whitesell to bring clean Draft 3.0 copy of C63.19 to main committee on Thursday for purpose of forming a balloting group. [AI-23]
3. Don Heirman to recruit volunteers for working on the C63.24 In-Situ Immunity Evaluation document. [AI-24]

Next Meeting and Adjournment

The next C63 meeting will be November 9-12, 2015 at UL in Research Triangle Park, NC. The SC5 meeting is expected to be on Tuesday afternoon, November 10.

The meeting was adjourned at 4:40 pm.

SC5 Membership Roster

Andersen, Poul
Attayi, Masud
Berger, Stephen
Griffin, Andy
Hare, Ed
Heirman, Don
Hoolihan, Dan
Kuczynski, Victor
Lombardi, Rick
Long, Randy
Ramie, Jerry
Schaefer, Dave
Silberberg, Jeffry L
Whitesell, Steve
Zimmerman, Dave