



**ASC C63<sup>®</sup> SC5: Immunity Testing and Measurements**  
**Approved Minutes for Tuesday, November 10, 2015**  
**UL LLC, 12 Laboratory Drive, Research Triangle Park, NC 27709-3995**

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**Call to Order and Attendance**

Chair Steve Whitesell called the meeting to order at 3:01 pm. An attendance sheet was circulated for sign in. A quorum was present with 13 of 15 members in attendance. There was also 1 observer.

The following SC5 members were present:

Steve Whitesell (Chair)	Dan Hoolihan
Ed Hare (Vice Chair)	Rick Lombardi (via WebEx)
Jerry Ramie (Secretary)	Randy Long
Poul Andersen	David Schaefer (via WebEx)
Masud Attayi	Jeff Silberberg
Andy Griffin (via WebEx)	Dave Zimmerman (via WebEx)
Don Heirman	

The following SC5 members were not present:

Stephen Berger	Victor Kuczynski
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The following observer was also in attendance:

Craig Fanning (via WebEx)

**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 new C63<sup>®</sup> Patent related slides. He asked if there was anyone aware of essential patents that should be made known. No one spoke up.

The Chair reviewed the draft minutes from the previous meeting and noted that the number of observers present was 5 as listed, not 8 as stated in the lead-in sentence. He asked if there were any other additions or corrections. Jeff Silberberg requested the following modification be made to the discussion under New Business (additions shown with underscore and deletions with ~~strikeout~~):

Jeff Silberberg discussed IEC 60601-1-2 ~~is 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. The document will become IEC TR 60601-4-2. ESD testing of connector pins was an issue. Content from the draft C63.16 document was shared but not well received. Publishing C63.16 should improve acceptance.

The modified minutes were then approved by consensus.

**Review of Membership and Scope**

The Chair noted that new guidelines for continuation of membership have been implemented. 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 may place your membership at risk. Participation via web conference is considered attending a meeting. Abstentions are counted as responding to a vote.

No member is currently at risk. However, 2 members have now missed two consecutive meetings and 3 members failed to respond to the last subcommittee vote (approving submission of C63.16 to the main committee for formation of a ballot group, 03/15/2015 close date).

The current Subcommittee Scope was shown 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) – Andy Griffin is the new WG Chair. A PINS-C was approved at the May 2015 meeting. Ed Hare and Don Heirman have agreed to be members of the WG. Additional volunteers are welcome. The WG needs to review the PINS-C and determine which of the proposals to include in an official PINS. No further progress was reported.

C63.15 (Immunity of Electrical and Electronic Equipment) – Don Heirman is the WG Chair. A PINS-C for revising this Recommended Practice was approved at the Nov 2014 meeting. A WG has been formed and is reviewing which items in the PINS-C should be included in the actual PINS. Work on creating a revised document is actively underway. Rick Lombardi has recruited others from the automotive industry and is providing substantial new inputs for the document, including three new tests. The WG is considering acceptance criteria clarifications for various products. New material has been added explaining IEC 61000-4-6 level setting and run-test setups. Tim Harrington is serving as editor for pulling all of the inputs together into one document. An email ballot to approve a PINS is expected in December.

C63.16 (ESD Testing Guide) – Steve Whitesell is the WG Chair. Draft 3.0 of the revised C63.16 document was circulated for ballot on June 4, 2015. It closed successfully on July 9 with 6 Approve, 5 Approve with Comments, and 6 Ballots Not Returned from the 17 people in the ballot pool. The WG met via WebEx and resolved all comments except one. The final comment was resolved at a WG meeting on Monday. Although some of the comments were identified as technical, the WG does not feel that any technical changes were made to the document in resolving them. Since there were no negative votes, the WG proposes not doing a recirculation ballot. Instead, the revised document (Draft 4.0), complete with a list of comments and their resolutions, will be circulated to the ballot group for a two week review. If no objections are raised, it will then be forwarded to the IEEE editors for their review and publication.

C63.24 (In Situ Immunity Evaluation) – Don Heirman has agreed to take over as Chair of this WG. Since no progress had been made on this document for several meetings and an effort by SC5 Chair Steve Whitesell early in 2015 failed to find anyone willing to step forward and work on the document, Mr. Whitesell recommended the project be dropped at the May meeting. However, Don Heirman requested that the decision to do so be delayed until the November meeting to allow him to try to recruit volunteers. He has been successful in arousing interest of the EMC Society, which has a companion document on in-situ EMC emissions evaluation. That document is due for revision and there is interest in working on the two together as a joint project. The status of the existing PINS will need to be reviewed in that case. Mr. Heirman is looking for additional volunteers and a vice chair.

### **Other Old Business**

None

### **New Business**

None

### **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. Please provide "copy and paste" correct content.

## **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 also 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]
4. Don Heirman to recruit volunteers for working on the C63.24 In-Situ Immunity Evaluation document. [AI-24]

### **New Items**

1. Steve Whitesell to provide clean and change-tracked copies of C63.16 Draft 4.0 with resolution of all ballot comments implemented, along with a summary of the comments and their resolution, to Sue Vogel for distribution to members of the ballot group. [AI-25]
2. If no concerns are raised by ballot group on revised C63.16 Draft 4.0 document, Steve Whitesell to submit it to IEEE editors for review and publication. [AI-26]
3. Don Heirman to review status of C63.24 PINS in regard to proposal to create a joint project with EMC Society on finishing this document and revising their companion in-situ emission evaluation document. [AI-27]

## **Next Meeting and Adjournment**

The next C63 meeting will be May 9-12 at IEEE Headquarters in Piscataway, NJ. The SC5 meeting is expected to be on Tuesday afternoon, May 10. Note was taken that we have become more efficient with our meetings and that we may not need to schedule two hours for the next meeting.

The meeting was adjourned at 3:45 pm.