



**ASC C63<sup>®</sup> SC5: Immunity Testing and Measurements**  
**Approved Minutes for Tuesday, May 7, 2013**  
**IEEE Headquarters, 445 Hoes Lane, Piscataway, NJ 08855-1331**

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**Call to Order and Attendance**

Chair Steve Whitesell called the meeting to order at 3:20 pm and circulated an attendance sheet for sign in. He also asked those present to introduce themselves. A quorum was declared with 11 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)	David Schaefer
Poul Andersen	Werner Schaefer
Stephen Berger	Jeff Silberberg
Andy Griffin	

The following SC5 members were not present:

Masud Attayi	Rick Lombardi
Bob Hofmann	Dave Zimmerman
Victor Kuczynski	

The following observers were also in attendance:

Beth Hackett	Dheena Moongilan
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**Opening Business**

The Chair reviewed the draft agenda and asked if there were any additions or changes. There were none, and the agenda was accepted as presented.

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<sup>®</sup> standards work and reminded all in attendance of the need to pay their participation fees if applicable.

The Chair reviewed the draft minutes from the previous meeting and asked if there were any additions or corrections. There were none, and the minutes were approved as presented.

**Review of Membership and Leadership**

The Chair reviewed the existing SC5 membership list as found on the C63 web site and asked if there were changes to be made to the list. It was noted that at least one of the listed members had not attended the last three consecutive meetings. Although SC5 has no specific written criteria regarding continuation of membership, active participation in the subcommittee's work is expected. The chair will contact any members who have missed three consecutive meetings to confirm if they still have an interest in the SC5 work and to inform them that they need to actively participate.

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 asked if there was any objection to forwarding the proposed SC5 membership list as shown in Annex A to the main committee for approval. A motion was made to do so and passed unanimously.

### **Review of Subcommittee Scope**

The Chair proposed that the following statement of the Subcommittee's scope be made more concise:

Subcommittee 5 is responsible for writing, updating, and changing existing and proposed C63® approved standards for new or existing immunity-testing techniques, associated instrumentation and test-methods development as requested by the Main Committee ASC C63®.

After some discussion, the text below was agreed upon and will be forwarded to the main C63 Committee for approval:

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®.

### **Working Group Reports**

C63.9 (Immunity of Audio Office Equipment) – This Standard is due for its five-year review in 2013. Mr. Berger was the previous WG Chair. He indicated he believed the document still has value and is not in need of revision. He moved to recommend to C63 that the document be reaffirmed. Mr. Hare seconded the motion, which carried by unanimous consent.

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. Mr. Hare noted that SC5's input on this document will be sought by SC3 in their work on revising C63.12.

C63.16 (ESD Testing Guide) – Mr. Worley indicated he would not be able to continue as Chair of this WG but that he does wish to remain involved in the activity to revise the document. A PINS has been approved but little progress has been made on the revision of the document, which will contain unique guidance on ESD test methods not found elsewhere (e.g., IEC 61000-4-2). In the ensuing discussion, Mr. Ramie, Mr. Heirman, Mr. Silberberg, and Tom Braxton were identified as subject matter experts. Mr. Whitesell will serve as Chair until someone else steps forward. Mr. Ramie will set up a webinar to begin the work. Mr. Heirman will contact Tom Braxton and ask if he would be willing to participate.

C63.20 (Immunity of Equipment for Use in Nuclear Power Stations) – Mr. Berger indicated he had been unsuccessful in generating further interest in this work or in gaining additional participants from the nuclear power plant industry. As a result, he moved to cancel the project and its associated PINS. Mr. Heirman seconded. After a brief discussion, the motion was unanimously approved.

C63.24 (In Situ Immunity Evaluation) – Mr. Berger is Chair of this WG and had felt the draft document was about ready for ballot. However, Dave Schaefer has submitted suggestions which will require further review and revision of the draft. He has indicated he is willing to help with this task. Mr. Berger moved that Mr. Schaefer be appointed Vice-Chair of the WG. Mr. Hare seconded and the motion passed unanimously. When a new draft text is ready, a two week electronic ballot will be used for SC5 approval.

### **Other Old Business**

Don Heirman is Chairing an ad hoc task group on C63 Standards for the Smart Grid. He is in the process of creating a white paper pointing out how various C63 immunity (and emissions) standards can be applied to smart grid equipment. He discussed an example of how clustered meters in multi-unit dwellings might benefit from the application of C63 standards. This information will be used to create a draft report for consideration by the NIST Smart Grid Interoperability Panel (SGIP) Smart Grid Testing and Certification Committee (SGTCC) for inclusion in their Catalogue of Standards.

## **New Business**

Jerry Ramie gave a presentation on issues with immunity testing in the ANSI C12.1-2008 standard that is being considered for reaffirmation. He identified these issues during his work with the NIST SGIP. Since C63 has no responsibility for this standard, Mr. Ramie was seeking guidance on what steps we might be able to take to ensure the shortcomings are addressed rather than having the standard reaffirmed as is. Mr. Hare moved to form a task group to assess the C12.1 shortcomings and to provide input to the C12.1 writing group and to the SGIP Electromagnetic Interoperability Issues (EMII) working group. Mr. Ramie seconded. After some discussion, the motion was unanimously passed. Mr. Ramie will chair the task group. Mr. Hare and Mr. Schaefer will participate.

Poul Anderson reported that SC3 would be submitting a PINS to the C63 Main Committee for revising C63.12. He specifically requested that SC5 review the immunity limits table in C63.12 to determine if the values shown there were still valid and to make recommendations on additional immunity tests that should be considered for addition to the document. A June 12, 2013 teleconference chaired by John Repella has been scheduled. SC5 members will be extended an invitation to participate.

## **C63 Web Site Update**

Mr. Hare indicated that Mr. Ramie has taken over duties as web site manager for SC5.

## **Action Item Review**

### **Old Items**

1. There were no carry-over action items.

### **New Items**

1. Chair to contact all members who have missed three or more consecutive meetings to ask if they are still interested in SC5 work and to remind them of the need to actively participate if they are interested.
2. C63.9 standard to be submitted for reaffirmation ballot.
3. Steve Whitesell to assume C613.16 WG Chair role until another person can be identified for the position.
4. Jerry Ramie to set up webinars to get the work on revising this guideline document going.
5. Don Heirman to check with Tom Braxton to see if he would be willing to participate in the C63.16 WG effort.
6. C63.20 project and associated PINS on nuclear power station immunity to be cancelled.
7. Steve Berger and Dave Schaefer to review Schaefer's suggestions for C63.24 document, revise draft, and circulate for two-week electronic Subcommittee ballot when ready.
8. Don Heirman to create draft report on applicability of C63 immunity and emission standards to Smart Grid equipment for consideration by the NIST SGIP SGTCC in their Catalogue of Standards.
9. Jerry Ramie to chair a task group that will assess C12.1 shortcomings in regard to immunity testing and provide input to the C12.1 writing group and the SGIP EMI working group about their findings. Ed Hare and Dave Schaefer to participate.
10. SC5 members to review and provide input on the immunity limits table and possible additional immunity tests to be included in SC3's revision of C63.12.

## **Next Meeting and Adjournment**

The next meeting will be hosted by UL at its Northbrook, IL location the week of November 11-14, 2013.

The meeting was adjourned at 4:58 pm.

Annex A  
SC5 Membership List

Leadership:

Steve Whitesell, Chair  
Ed Hare, Vice Chair  
Jerry Ramie, Secretary

Members:

Poul Andersen  
Masud Attayi  
Stephen Berger  
Andy Griffin  
Don Heirman  
Bob Hofmann  
Dan Hoolihan  
Victor Kuczynski  
Rick Lombardi  
David Schaefer  
Werner Schaefer  
Jeff Silberberg  
Dave Zimmerman

Emeritus Member:

Herb Mertel