

Accredited Standards Committee C63[®]

Electromagnetic Compatibility

Accredited by the American National Standards Institute, Inc.
Secretariat: Institute of Electrical and Electronic Engineers, Inc.

C63[®] SC8 - Medical Device EMC Test Methods

APPROVED MINUTES of the May 2, 2018 meeting IEEE Headquarters Piscataway, NJ

Chairman: Stephen Berger, stephen.berger@ieee.org
Vice-Chair: Steve Whitesell, swhitesell@ieee.org
Secretary: Allen Crumm, acrumm1@outlook.com

Attendance:

Member's Name	Member's Role on SC8	Present	Absent
Becker, John	Member	X	
Berger, Stephen	Chair	X	
Case, David	Member	X	
DeLisi, Bob	Member	X	
Hare, Ed	Member	X	
Heirman, Don	Member	X	
Hoolihan, Dan	Member	X	
Kuczynski, Victor	Member	X	
Liu, Steve	Member	X	
Moongilan, Dheena	Member	X	
Silberberg, Jeffrey L	Member	X	
Whitesell, Steve	Vice-Chair	X	
Zimmerman, Dave	Member		X
Names	Observers only below this line.		
Jerry Ramie	Observer	X	
JC Chen	Observer	X	
Randy Long	Observer	X	
Henry Benitez	Observer	X	
Bill Hurst	Observer - Webex	X	
Bill Graff	Observer	X	
Doug Kramer	Observer	X	
Harry Hodes	Observer	X	
Ross Carlton	Observer	X	
Keith Skoglund	Observer	X	
John Norgard	Observer	X	
David Schaefer	Observer	X	
David Chamberlain	Observer	X	
Steve Jones	Observer	X	

1. **Call to Order:** Chair, Stephen Berger called the meeting to order.
 - 1.1 **Opening remarks and announcements:** Chair, Stephen Berger, welcomed those in attendance and set up the web meeting.
 - 1.2 **Introductions:** The chair asked for introductions. Everyone around the table introduced themselves and their affiliation. A sign-in sheet was sent around the room.
2. **Approval of the Agenda:** Chair, Stephen Berger, reviewed the agenda. A motion was made to adopt the agenda. A vote was taken, and the motion passed.
3. **Presentation of [patent slides](#):** Chair, Stephen Berger, showed the slides regarding IEEE patent policy. Chair, Stephen Berger, went over the content of the slides and an opportunity was given to the subcommittee members to identify/disclose patents.
4. **Approval of minutes of previous meeting:** The minutes were reviewed. David Case made a motion to approve the minutes as amended, and Jerry Ramie seconded the motion. The minutes were approved by consent, hearing no objection.
5. **Meeting attendance & Membership:** Chair, Stephen Berger, announced that two members, Poul Anderson and Andy Griffith, have been removed due to inactivity. John Becker has joined the SC since the last meeting.
6. **Working Group reports:**
 - 6.1 **C63.18:** Currently suspended.
 - 6.2 **C63.19:** Steve Berger gave a verbal report regarding a good meeting that was held on C63.19. [More information about each standard](#) is available on the Standards Status section of the [C63[®] web page](#).
7. **Old Business:** There was no old business discussed.
8. **New Business:** Chair, Stephen Berger, asked if there was any new business.
 - 8.1 **Medical device manufacturers:** A task group was appointed to solicit participation by medical device manufacturers.
 - 8.2 **FDA EMC Activities Report:** Jeff Silberberg gave a report.
 - 8.3 **IEC SC62A MT23 Liaison Report:** Jeff Silberberg gave a report.

9. **Action Items:** The open action items from the previous meeting are shown below.

Action Item #	Subject	Responsible Person	Status	Deliverable Date	Comments
AI-1:	Review and send updates on the website to Jerry Ramie with the most current information.	David Zimmerman	Closed	1 January 2018	
AI-2:	Send e-mail to at risk members, Poul Andersen, Andy Griffin, and Ed Hare.	David Zimmerman	Closed	1 December 2017	
AI-3:	Put Stephen Berger in touch with Curt Sponberg.	Jeff Silberberg	Closed	1 January 2018	
AI-4:	Update the reflectors for SC8 and C63.19 on the website.	Stephen Berger	Closed	1 January 2018	

10. **Time and place of next meeting:** The proposed date of the next SC8 meeting is during the dates of November 26-30, 2018 prior to the main committee meeting. The next meeting will be held in Boulder, CO.

11. **Closing remarks and Adjournment:** Chair, Stephen Berger adjourned the meeting.

Current SC8 Membership

#	Name	Role within Subcommittee 8	Affiliation / Financial Support
1	Becker, John	Member	HIA
2	Berger, Stephen	Chair	TEM Consulting
3	Case, David	Member	CISCO
4	DeLisi, Bob	Member	UL, LLC
5	Hare, Ed	Member	ARRL
6	Heirman, Don	Member	Don HEIRMAN Consultants
7	Hoolihan, Dan	Member	Hoolihan EMC Consulting
8	Kuczynski, Victor	Member	Vican Electronics
9	Liu, Steve	Member	PCTEST Engineering Laboratory, Inc.
10	Moongilan, Dheena	Member	Nokia
11	Silberberg, Jeffrey L	Member	FDA Center for Devices & Radiological Health
12	Whitesell, Steve	Vice Chair	Whitesell Consulting, LLC
13	Zimmerman, Dave	Secretary	Spectrum EMC, LLC

The members highlighted in red have been removed from the membership roster.

The members highlighted in yellow are at risk.

Chair: Stephen Berger

Vice Chair: Steve Whitesell
May 02, 2018; 10:00 AM – 12:00 PM - EDT

Secretary: Allen Crumm

IEEE Headquarters
Piscataway, NJ

Meeting Agenda

1. Call to Order: Chair

1.1 Opening remarks and Announcements: Chair

1.2 Meeting logistics announcements: Host

1.3 Introductions: Secretary - roll call (record attending members with their affiliations and guests separately below) Report any roster errors to the ASC-C63[®] Secretary (insert [SC8 membership roster](#) from the website as shown below)

Subcommittee 8 Membership Roster

#	Name	SC Role	Affiliation
	Andersen, Poul	Member	SAE—Alternate
1	Becker, John	Member	Starkey
2	Berger, Stephen	Chair	TEM Consulting
3	Case, David	Member	Cisco Systems
4	DeLisi, Bob	Member	UL, LLC
	Griffin, Andy	Member	CISCO Systems
5	Hare, Ed	Member	ARRL
6	Heirman, Don	Member	Don HEIRMAN Consultants
7	Hoolihan, Dan	Member	Hoolihan EMC Consulting
8	Kuczynski, Victor	Member	Vican Electronics
9	Liu, Steve	Member	PCTEST Engineering Laboratory, Inc.
10	Moongilan, Dheena	Member	Nokia
11	Silberberg, Jeffrey L	Member	FDA Center for Devices & Radiological Health
12	Whitesell, Steve	Vice Chair	Whitesell Consulting LLC
13	Zimmerman, Dave	Member	Spectrum EMC, LLC

2. Approval of the Agenda

3. Review of the patent slides

4. Results of Pre-Meeting E-Mail Ballot

4.1 Approval of the previous Minutes - Minutes of the previous meeting

Review of [Subcommittee Membership](#)

Report any errors to the ASC-C63® Secretary

4.2 Review of Membership Guidelines

Subcommittees:

For an individual to remain a voting member of a Subcommittee, active participation in Subcommittee meetings and regular responses to Subcommittee email votes is required. Should a member fail to attend at least one of three consecutive scheduled meetings (in person or remotely via web conference (when used)) or respond to at least one of every two consecutive Subcommittee email votes, their membership in that Subcommittee may be at risk.

Note: Abstentions shall be treated the same as a “yes” or “no” vote regarding the requirement to respond to email votes.

Working Groups:

For an individual to remain a member of a Working Group, active participation is required. Should a member fail to attend at least one of three consecutive scheduled meetings (in person or via web conference (when used)), their membership in that Working Group may be at risk. Individual Working Groups may establish additional participation criteria and/or modify this requirement.

Member Attendance Log:

Name	11/10/16	5/10/17	11/8/17	5/2/18
Andersen, Poul				
Becker, John			X	
Berger, Stephen	X	X	X	
Case, David			Web	
DeLisi, Bob		X	X	
Griffin, Andy				
Hare, Ed				
Heirman, Don	X		X	
Hoolihan, Dan	X	X	X	
Kuczynski, Victor	X	X		
Liu, Steve			X	
Moonqilan, Dheena		X	X	
Silberberg, Jeffrey L	X	X	Web	
Whitesell, Steve			Web	
Zimmerman, Dave	X	X	X	

4.3 Consideration of new members Application for C63® Subcommittee Membership

4.4 Approval of Scope: (Spring meeting only) (Report approval or any changes to the Main Committee)

Scope

Subcommittee 8 is responsible for writing and maintaining existing and proposed C63® standards for medical devices, as assigned by the Main Committee ASC 63®.

5. Working Group reports - Chair - More information about each standard is available on the Standards Status Matrix page of the [C63® web site](#).

3.1 C63.18: On Site Medical Device Immunity Testing – No active work.

C63.18-2014 Learn more	On-Site Medical Radiated RF Immunity testing	SC 8	Silberberg, Jeffrey	No active PINS	Current. No plans for further maintenance at this time.
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C63.18: C63.18-2014 On-site, Ad-Hoc Test Method for Estimating Radiated Electromagnetic Immunity of Medical Devices to Specific Radio Frequency Transmitters

Contact: [Silberberg, Jeffrey L](#) (Working Group Chair)

Scope: This recommended practice is a guide to evaluating the electromagnetic immunity of medical devices to radiated radio-frequency (RF) emissions from common RF transmitters (e.g., two-way radios; walkie-talkies; mobile phones; wireless-enabled tablets, e-readers, laptop computers, and similar devices; radio-frequency identification (RFID) readers; networked mp3 players; two-way pagers; and wireless personal digital assistants [PDAs]).

Status: Current. No plans for further maintenance at this time.

Purchase: [IEEE Store](#). To purchase individual standards, go to the IEEE store and search on the standard number. Withdrawn standards can still be purchased. Draft revisions are not yet available for sale.

3.2 C63.19: Hearing Aid Compatibility maintenance - [Stephen Berger](#)

C63.19-2011 Learn more	EMC for Hearing Aids,	SC 8	Berger, Stephen	C63.19 PINS	Current. New revision being developed.
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C63.19: C63.19-2011 American National Standard for Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids

Contact: [Berger, Stephen](#) (Working Group Chair)

Scope: Uniform methods of measurement for compatibility between hearing aids and wireless communications devices are set forth.

Status: Current. New revision being developed. An explanation or interpretation is [available](#).

Purchase: [IEEE Store](#). To purchase individual standards, go to the IEEE store and search on the standard number. Draft revisions are not yet available for sale

6. Other Old Business: Chair

6.1 Written reports - Written reports of this Subcommittee meeting shall be presented by the Subcommittee Chair at the Main Committee meeting. These reports shall be made using the [PowerPoint template](#). Prior to the Main Committee meeting, the [SC report](#) and [approved previous meeting minutes](#) shall be provided to the projectionist for showing on the screen at the Main meeting. The Presentation and any written report shall also be sent by the Subcommittee Chair to the ASC-C63® [Newsletter editor](#).

6.2 Coordination with SC2 for definitions - Before any Working Group draft can be submitted to the Subcommittee for approval, the document must be provided to the SC2 Chair for evaluation and coordination of the definitions used.

6.3 Coordination with SC3 for harmonization - Before any Working Group draft can be submitted to the Subcommittee for approval, the document must be provided to the SC3 Chair for evaluation and coordination of any harmonization effort.

- 7. New Business: Chair**
- 9. Review of the Action Items: Secretary**
 - 9.1 Review of Action Items from this meeting:**
(read Action Items to Members, who must agree that they understand their meaning)
 - 9.2 Report of Action Items from previous meeting**
- 10. Time and place of next meeting: Chair**
- 11. Closing remarks and Adjournment: Chair**