



**ANSI-Accredited Standards Committee C63®
Electromagnetic Compatibility**

November 10, 2017 – 8:00 AM to 3:00 PM-CST
ETS-Lindgren, Cedar Park, TX

Chair: [Dan Hoolihan](#)

Vice-Chair: [Dan Sigouin](#)

Secretary: [Jerry Ramie](#)

Draft Minutes

1. Call to Order - Chair - The meeting was called to order at 8:11AM-EDT. We had Sue Vogel, Jennifer Santulli, and Soo Kim from the IEEE in attendance as Guests.

1.1. Introductions (roll call) - Secretary - Members in attendance are shown:

MEMBER	PRIMARY	ALTERNATE
ACIL		Vacant
Apple, Inc.		O'Dwyer, Michael
ARRL – The National Assoc. for Amateur Radio	Hare, Ed	
Bay Area Compliance Laboratories Corp.		
Bureau Veritas		
CISCO Systems	Griffin, Andy	
Dell Inc.	Worley, Richard	Vacant
Element Materials Technology	Kiemel, Greg	Darden, Jeremiah
Ericsson AB	Bazhanov, Vladimir	
ETS – Lindgren	Chen, Zhong	Kramer, Doug
Federal Communications Commission		Vacant
Food and Drug Administration		
Hearing Industries Association		Vacant
Honeywell	Antola, Michael	
Innovation, Science & Economic Development Canada	Nixon, Jason	
Information Technology Industry Council	Hirvela, John	
IEEE – EMC Society		Benitez, Henry
Keysight Technologies		Potts, Nate
Motorola Solutions, Inc.	Zakharia, Deanna	
National Institute of Standards & Technology	Young, William	
Nokia Bell Labs	Moongilan, Dheena	Vacant
PCTEST Engineering Laboratory		Ward, Dennis
Qualcomm Technologies, Inc.		

Society of Automotive Engineers	Lombardi, Rick	
SPAWAR - US Navy		
Telecommunications Certification Body (TCB) Council	Wall, Art	
TÜV SÜD America, Inc.		Elliott, William (Mac)
UL-LLC	DeLisi, Bob	
US Department of Defense - Joint Spectrum Ctr.		Duncanson, Michael
Individual Members:		
INDIVIDUAL Member	Hoolihan, Daniel	None
INDIVIDUAL Member		None
INDIVIDUAL Member		None
INDIVIDUAL Member	Zimmerman, Dave	None
INDIVIDUAL Member	Berger, Stephen	None
INDIVIDUAL Member	Heirman, Don	None
INDIVIDUAL Member	Sigouin, Dan	None
Emeritus Members:		
MEMBER Emeritus		None
MEMBER Emeritus		None

Observers: Jerry Ramie, Sue Vogel, Jennifer Santulli, Soo Kim, Allen Crumm, Beth Hackett, Randy Long, Janet O'Neil, Jeff Klinger, Qiong Wu

Quorum: 29 organizations + 7 individual members = 36 total. A quorum is 50% +1; which is 19 or more members in attendance. Quorum was achieved with 26 members attending the meeting.

2. Approval of the consent Agenda

2.1 **Approval of agenda - Chair** - Mr. Sigouin moved, seconded by Mr. Hare, to accept the [agenda](#). There were no objections. The Agenda was accepted.

2.2 **Presentation of [Patent](#) slides - Chair** - The patent slides were shown and no patent issues were raised.

3. [Chairman's Report](#) – Hoolihan -

3.1 **General - Moment of Silence** (Sue Archambeault, Warren Kesselman)



3.2 FCC Interactions - [Authorization of Radiofrequency equipment](#)

3.3 Standards published - see [Chairman's Report](#)

4. Vice-Chairman's Report - Sigouin - Dan announced the formation of a small ad-hoc committee on Procedures with Dan Sigouin, Dan Hoolihan, Dave Zimmerman and Bob DeLisi.

5. Secretary's Report – Ramie

5.1 [Minutes of the last Meeting](#) (20170511) – Ramie - The Minutes of our previous meeting were reviewed and [approved](#) by acclamation.

5.2 Disposition of Interpretation Requests since last meeting – Ramie

Date	Interpretations circulated or posted	Motioner/source	Result	Comments
5/19/2017	Received 20170511_C63_4_2014_Annex_N_1b2_antenna_symmetry request	Scott Drysdale	Sent to SC1	SC1 to form task group to address
5/22/2017	Received C63.5 (2017) Clause 5.1.1e attenuator selection	David Knight	Sent to SC1	SC1 to form task group to address
5/22/2017	C63.5 (2017) Clause 4.4.3 Rx antenna height scan	David Knight	Sent to SC1	SC1 to form task group to address
6/27/2017	Forwarded additional text from NPL on Clause 4.4.3 interp request to SC1	David Knight	Sent to SC1	Forward to task group for consideration
8/29/2017	Received 20170829_Annex_D3_NSA_vertical_3_meters request	Charles Wang	Sent to SC1	SC1 to form task group to address
9/7/2017	Circulated C63.5 (2017) Clause 4.4.3 Rx antenna height scan	David Knight	Sent to Main	comments due by 9/21/17, no comments
9/22/2017	Sent edited C63.5 (2017) Clause 4.4.3 Rx antenna height scan back to SC1	Bob DeLisi	Sent to SC1	comments due by 10/6/17
10/9/2017	Circulated edited C63.5 (2017) Clause 4.4.3 Rx antenna height scan to Main	Janet O'Neil	Sent to Main	comments due by 10/23/17
10/27/2017	Posted C63.5 (2017) Clause 4.4.3 Rx antenna height scan Interpretation	Bob DeLisi	Posted 10/27	Notice sent to requester 10/27/17
11/2/2017	Curculated C63.5 (2017) Clause 5.1.1e attenuator selection	Janet O'Neil	Sent to Main	comments due by 11/16/17

5.3 Open Interpretation requests - Ramie ([Interpretations Log 20171102](#)) Open are in red:

Date	Requestor	e-mail address	Project name	SC #	Rc'vd by S	Sent to SC	Back fm SC
5/7/2016	Charles Wang	charles@champrotek.com	C63.5 (2006) Annex H Antennas for NSA	SC1	5/7/2016	5/7/2016	
5/7/2016	Charles Wang	charles@champrotek.com	C63.4 (2014) Clause 4.5 Horn antenna aperture	SC1	5/7/2016	5/7/2016	6/11/2016
5/7/2016	Charles Wang	charles@champrotek.com	C63.4 (2014) Annex D.3 Horizontal polarization	SC1	5/7/2016	5/7/2016	1/20/2017
11/18/2016	Larry Stillings	larry@complianceworldwide.com	C63.4 (2014) Clause 5.5.1 (a) (1) and Figure 6	SC1	11/18/2016	11/18/2016	2/22/2017
5/11/2017	Scott Drysdale	sdrysdale@tuvcanada.com	C63.4 (2014) Annex N 1b2 antenna symmetry	SC1	5/11/2017	5/19/2017	
5/19/2017	David Knight	david.knight@npl.co.uk	C63.5 (2017) Clause 5.1.1e attenuator selection	SC1	5/22/2017	5/22/2017	8/29/2017
5/19/2017	David Knight	david.knight@npl.co.uk	C63.5 (2017) Clause 4.4.3 Rx antenna height scan	SC1	5/22/2017	5/22/2017	9/7/2017
						9/22/2017	10/6/2017
8/29/2017	Charles Wang	charles@champrotek.com	C63.4 (2014) 20170829_D3_NSA_vertical_3_meters	SC1	8/29/2017	8/29/2017	

5.4 Electronic Motions since last meeting - Ramie ([Electronic Motions log](#))

Date	Main Committee motion or action	Motioner/source	Result	Comments
6/26/2017	Circulated Honeywell membership application for 14 day discussion	Dan Sigouin	Sent to ballot	discussion closed 7/10, vote thereafter
7/14/2017	Balloted motion to add Honeywell as Organizational Member of ASC-C63®	Dan Hoolihan	Closes 7/31	25 Approve, 0 Disapprove, 2 Abstain

5.5 Membership Changes since last meeting - Ramie

Date	Membership changes	Motioner/source	Result	Comments
5/19/2017	Added Ernesto Mendoza to SC3 roster and WebEx invitation list	E. Mendoza	Added 5/19	on SC3 roster & SC3 WebEx invitations
6/9/2017	Added Jonas Friden to SC4 & C63.26 WebEx lists, app submitted	Jonas Friden	Added 6/9	to SC4 WebEx list, Allen added to C63.26
6/12/2017	Added John Rapella to C63.31 roster	Allen Crumm	Added 6/12	on C63.31 roster only
8/1/2017	Added Honeywell as Organizational member of C63	Michael Antola	Added 8/1	on Main, Public and Private rosters
8/2/2017	Removed Dr. Preves as HIA alternate representative. Position vacant	Dave Preves	Removed 8/2	on Main, Public and Private rosters
9/25/2017	Added Moongilan, Zakharia, Parikh, Klinger, Ward & Lee to C63.10 roster	Jason Nixon	Added 9/25	on SC4 roster page
9/26/2017	Removed Warren Kesselman as an Individual Member (he passed away)	Janet O'Neil	Removed 9/27	on Main, Public and Private rosters
10/2/2017	Added Edmond Lee to C63.26 roster	Steve Jones	Added 10/2	on C63.26 roster only
10/10/2017	Removed Brandon Le, added Chris Davlantes to C63.30 roster	Brandon Le	Posted 10/10	Exchanged members on C63.30 roster only
10/26/2017	Removed Whitesell, Kuczynski, Koster & D. Schaefer from SC2 roster	Chris Dilay	Removed 10/26	on SC2 roster page
10/26/2017	Removed Koster & D. Schaefer from SC2/WG1 roster	Chris Dilay	Removed 10/26	on SC2 roster page
10/31/2017	Removed Doug Parker from C63.5 roster	Janet O'Neil	Removed 10/31	on C63.5 roster only
10/31/2017	Moved Bob DeLisi from Chair of C63.5 to Member, Doug Kramer to chair	Janet O'Neil	Moved 10/31	on C63.5 roster only

6. [Secretariat Report](#) – IEEE – Sue Vogel

6.1 - Status of C63[®] published standards

6.1.1 Fourth Anniversary standards

6.1.2 Eight-years or older standards

6.2 – Status of PINS and PINS-C ([currently posted list](#))

7. Subcommittee reports (Brief written reports to include actions needed by C63[®], and items of particular interest during Subcommittee meetings).

Note: Reports should be provided on the [C63 Power Point template](#) (protected) and should include Scope, Duties, and Membership for 2017 for each Subcommittee. NOTE – EACH COMMITTEE REPORT WILL BE LIMITED TO A MAXIMUM OF **15 MINUTES**.

7.1. SC1: Techniques and Development -Chen - The [report](#) was shown. Mr. Chen moved, on behalf of SC1 (without the need for a second), to approve a PINS for [C63.4](#). Discussion of Attachment A ([spreadsheet](#)) ensued. Mr. Heirman noted some of the highlights and modified the PINS. Mr. Hirvela and Mr. Griffin voted against the motion, Mr. Sigouin abstained. The modified [PINS](#) was approved. The [Attachment A spreadsheet](#) should be posted to the C63 website public area. (posted 12/27 as an attachment to these Minutes)

Another [PINS](#) was shown on a [C63.5a](#) corrigendum. The document was approved unanimously.

A C63.23 PINS was shown. Discussion ensued. Edits were implemented. The edited [PINS](#) was approved unanimously.

A C63.25.2 PINS was shown. Discussion ensued. Edits were implemented. The edited [PINS](#) was approved unanimously.

7.2. SC2: Definitions – Dilay - Mr. Duncanson presented the SC2 [report](#). Mr. Duncanson moved, without the need for a second, to approve new officers. The motion carried unanimously.

Working group reports were reviewed. A need for a better approach to SC Chair participation with SC2 to coordinate definitions development and review during the publication process was expressed.

The C63.28 WG report was shown, including a Best Practice Guide Strawman, membership, participation and the need for more commercial participation. They plan to hold bi-monthly webinars.

The Chair (Mr. Hoolihan) asked each SC Chair to either attend the SC2 meetings or

assign someone to do so.

7.3. SC3: International Standardization – Heirman - The [report](#) was shown. This Subcommittee only covers one Standard; C63.12. They look for equivalency with international Standards. They recommend changes to International Standards through the appropriate US-Technical Advisory Group (TAG). The [Membership roster](#) was shown and discussed. The status of Standards with possible input to CISPR/TC77 via the US - National Committee TAG was shown. A [comparison table](#) of C63 documents and international documents was shown. Work that was considered as possible input to CISPR was shown and reviewed. Mr. Heirman asked that coordination with SC2 and SC3 be inserted into all Generic Agendas used by Subcommittees. **AI-51:** Ramie & Zimmerman to update all Generic SC Agendas with a step requiring SC2 and SC3 coordination before a document goes to Mandatory Editorial Coordination (MEC) at the IEEE.

7.4. SC4: Wireless and ISM Equipment Measurements - Wall - The [report](#) was shown. The SC4 [Scope](#) and [Roster](#) were briefly shown. A new Member was added. (Mr. Antola) Mr. Wall will retire soon and proposed that Mr. DeLisi be elected as the new SC4 Chair, effective 1/1/18. Mr. Wall will remain a member for a year or two. The status of SC4 projects and Task Groups was shown and discussed.

Mr Wall moved on behalf of SC-4, without the need for a second, to elect Bob DeLisi as Chair of SC4. The motion carried unanimously. (effective 1/1/18) The Vice-Chair position will remain open until the next meeting. (posted 12/28/17)

7.5. SC5: Immunity testing – Hare - The [report](#) was shown. Working group reports were included. They were looking for additional members for the [C63.9 WG](#) on office equipment immunity. A [webinar on 1/12/18](#) was set to start the process. Ross Carlton and Dan Sigouin expressed interest in future work and were added to the roster. (on 12/28/17)

The recently published [C63.16](#) was reviewed. Mr. Heirman offered some highlights.

[C63.24](#) is a new Standard just starting work regarding on-site or in-situ radiated RF immunity testing. IEEE-473 will be involved, as it covers the related topic of site surveys. A 1/5/18 webinar was requested, chaired by Mr. Heirman. Mr. DeLisi suggested that we post the audio (modulation) files for this Standard with the IEEE, as we've done previously.

7.6. SC6: Laboratory Accreditation – Long - The [report](#) was shown. The [Membership roster](#) was shown with one new Member, Mr. Nixon. The SC6 Secretary, Mr. Zimmerman, resigned his position but remained a Member of SC6.

7.7. SC7: Unlicensed Personal Comm. Services – Bazhanov - The [report](#) was shown. The [Scope](#) and [Membership roster](#) were shown briefly. [C63.27](#) rev. 2 was discussed. A PINS for C63.27 rev. 2 was shown. Mr. Bazhanov moved, without the need for a second, to accept the PINS. Discussion ensued. Edits were implemented. The edited [PINS](#) was approved unanimously.

"*Wireless Technology in Health Care Delivery*" was shown. Mr. Bazhanov moved, without the need for a second, to accept an initiative to "*offer invitation to have a co-sponsored study on the use of wireless technology in health care delivery to AAMI, WSTF, EMBS and other organizations that may be interested.*" No financial support would be required. The motion carried unanimously.

Ongoing and future activities were discussed. Mr. Bazhanov will retire from Ericsson effective 1/1/18. New contact information was provided and posted.

7.8. SC8: Medical Equipment Testing – Berger - The [report](#) was shown. The SC8 Secretary, Mr. Zimmerman, resigned his position but remained a Member of SC8.

Mr. Berger thought that additional participation from the healthcare industry was needed. The progress on their Standards (C63.18, C63.19) was shown.

Mr. Berger moved on behalf of SC8, without the need for a second, to waive paragraph 7.2.2 of our Procedures and recommend to the Main committee to move the draft Standard C63.19 directly to the balloting process. We want to get this document finished to avoid conflicts with the IEC efforts. The FCC is anxious to get this done as well as they need the document soon. Discussion ensued. A "dual-review" in parallel with the Main Committee and the balloting group was suggested by Mr. Hoolihan. Mr. Ward felt that we can't waiver an item that requires a vote under Robert's Rules and opposed the Motion. Mr. Hoolihan noted that this was a very specialized Standard with many earlier versions and was "mature." Ms. Vogel noted that we could parallel Main Committee review and balloting group formation, which takes 30 days. Conducting an invitation early and in parallel with review by the Main Committee was allowable. Mr. Berger supported Ms. Vogel's views.

Ms. Vogel noted that forming a balloting group can be done before the document is reviewed. Mr. Berger noted that the SC and the Main Committee can vote in parallel. Discussion ensued. Mr. Hare pointed out that we have done this in the past by formulating a balloting group pending the necessary approvals from ASC-C63. Mr. Ward pointed out that a Main Committee vote supersedes a vote by a Subcommittee. Mr. DeLisi stated that the timing could be coincident to save time. The motion was open and a vote was conducted. The motion failed.

Ms. Vogel suggested that the motion could include a SC vote to allow parallel approval, thus not waiving our Procedures. A new motion was shown and dropped into the report. Mr. Berger moved, seconded by Mr. Hare to approve the motion. Discussion ensued. The motion was approved. Mr. Benitez and Mr. Sigouin voted no. Abstentions were Heirman, Young and Zimmerman. The motion passed.

***** Lunch Break *****

8. New Business

8.1. C63.4 AND C63.4a - Heirman - C63.4a is an amendment to C63.4-2014 and is part of that document. Our plan is to move them into a single document in the next C63.4-draft. Mr. Hoolihan thought that when the next draft is ready we will want a webinar or meeting with the FCC. Mr. Griffin thought we pushed the document too quickly and don't yet know its impact on manufacturers. His chamber failed the new requirements, exposing them to considerable expense to bring it into compliance. Mr. Hoolihan noted that Mr. Hodes is just beginning to test his chamber as well. The height above 2.5M is the issue. Mr. Berger stated that C63.19 will cover the use of the GTEM as well. It would be good if it could be validated using the new document. Mr. Sigouin noted that if there were concerns, they should be addressed to the Chairman. (Mr. Hoolihan)

8.2. Separate standards for site validation - We don't want any gaps with the next version of C63.4.

9. Other Administrative Matters

9.1. [Web Page](#) – Ramie

9.1.1 new Generic Agendas for Subcommittees and Working Groups now include a review of Membership rosters, Membership Guidelines, the attendance log, the PINS & Status Matrix/"Learn more" text. A new section requiring coordination with SC2 and SC3 before editorial review will be added to all Generic SC Agendas before our next meetings. (see [AI-51](#))

9.1.2 Removed Member addresses on the public roster, but kept them on the Private roster under Clause 5.7 of our [Procedures](#)

9.2. Administrative matters from the Steering Committee - none

9.3. Officer elections for 2018 – November, 2017 Meeting - Mr. Hoolihan pointed out that the Chair, Vice Chair and Secretary need to be elected every three years. About

three months ago, Mr. Hoolihan was approached by Mr. Sigouin and asked if he could continue as Chair. On 11/9/17 the Steering Committee approved a Motion to recommend to the Main Committee that the procedures Clause 4.1 be suspended to permit the sitting chair to run for another 3-year term. The [Motion](#) was shown.

Discussion ensued. This would be a temporary suspension, which would immediately be rescinded after an action occurred. Our procedures are not "bylaws" but rather "procedures" or "standing rules." Mr. Ward was concerned about legal issues resulting from suspension of our procedures. Mr. Benitez opposed the Motion for the EMC Society. Abstentions were ARRL, TCB Council, Don Heirman, PC Test, SAE, ISED, Cisco, and TUV SUD. The motion passed.

Nominations for Chair ensued. Mr. Zimmerman nominated Mr. Hoolihan as Chair, seconded by Mr. Wall. Mr Heirman nominated Mr. Sigouin, seconded by Mr. Benitez. There were no other nominations. Mr. Wall asked if Mr. Sigouin was declining the nomination. Mr. Sigouin declined the nomination. The vote to approve Mr. Hoolihan as Chair was approved unanimously.

Zimmerman moved, seconded by Mr. Hare to nominate Mr. Sigouin as Vice Chair. Mr. Berger nominated, seconded by Mr. Heirman, to nominate Mr. Hare as Vice Chair. Discussion ensued. Mr. Ward was concerned that if the Vice Chair did not want to become Chair we may be imposing upon him against his wishes. Mr. Wall suggested we have two Vice Chairs so we have a pool of candidates at the next election of officers. Additional discussion ensued. A paper ballot was requested for the vote. The votes were counted by the IEEE Secretariat representatives at the meeting, Mr. Sigouin won the election as our next Vice Chair.

- 9.4. Patent Issues - Wall** - Mr. Wall stated that we all have to look at the [C63® Patent Slide Set](#) at the beginning of each meeting. It is important that Slide #2 be shown and read aloud at each meeting. If patent issues are raised, the Chairman would report this occurrence to the IEEE legal department. WG and SC Chairs are bound by this requirement. After notifying the C63 Chair, the IEEE and the WG Chair, it's important to follow the procedures in order to get any technical work done without risk of litigation. Mr. Heirman noted that we shouldn't treat the patent slides with humor or disdain. Mr. Wall pointed to a *Business Week* magazine article detailing the patent dispute between two of our current Members. We need to adhere to our C63 [Procedures](#).

10. Other Business

- 10.1 Future Seminars and Workshops – Heirman** - A [report](#) was shown. Please help us promote our educational seminars and workshops. Our events during 2017 were listed. We discussed Microsoft contacting us and asking us for an in-plant seminar. (wireless focused) The Standards addressing this topic were shown. Future workshop plans were discussed for Singapore and Long Beach. Future documents that will need seminars were listed.
- 10.2 Newsletter report – Zimmerman** [2017 August Newsletter - Issue 41 \(pdf\)](#) Dave Zimmerman thanked Bridgett Budig for her help with the newsletter.
- 10.3 Next meeting – Hoolihan - 4/30/18 - 5/4/18 @ IEEE - Piscataway, NJ**
Mr. Wall and Mr. Sigouin thought that we might extend WG meetings up to 2.5 days. Mr. Hoolihan asked Jennifer for one large room (40) for all five days and one smaller room for the first day.

11. Old Business

11.1 Action item review on items not covered elsewhere on Agenda – (as time permits) - Secretary

Consolidated Action Items from Main Committee Meeting 05/11/17¹

Action Item #	Subject	Responsible Person	Status	Delivery Date	Comments
AI-32:	Mr. Hoolihan to check in our procedures for ability to reaffirm a Standard without a written ballot at a face-to-face meeting.	Dan Hoolihan	Closed	11/10/17	We can re-affirm without ballot
AI-38:	Dan H. to solicit Standards Council Canada regarding membership.	Dan Hoolihan	Open	11/10/17	
AI-39:	Mr. Hodes to provide contact info for SCC to Dan H.	Harry Hodes	Open	11/10/17	
AI-44:	Don H. will look at the paragraph in C63.4 on antenna calibration to determine if labs must be accredited to C63.5	Don Heirman	Closed	11/10/17	
AI-45:	Jerry will change the Standards Development page to serve a WORD document rather than the link for the ANSI PINS site.	Jerry Ramie	Closed	11/10/17	Sent order 5/17
AI-46:	Jerry to add the PINS-C form link to the Stds. Development page . The PINS-C form on the private PINS-C page is incorrect.	Jerry Ramie	Closed	11/10/17	Sent order 5/17
AI-47:	Mr. Ramie to send an email to each SC Chair showing them the existing content on the Status Matrix and asking them for their corrections and requesting their Approved Minutes from their previous meeting in November, 2016	Jerry Ramie	Closed	11/10/17	Sent emails 5/17
AI-48:	Mr. Heirman to send an email to all voting members for their training ideas and possible venues for our training offerings	Don Heirman	Closed	11/10/17	
AI-49:	The WG chairs shall send their requests for time slots in November to Mr. Hoolihan by the end of May, 2017	All WG Chairs	Closed	11/10/17	
AI-50:	All SC Chairs need to submit their newsletter content to Mr. Zimmerman by the end of May	All SC Chairs	Closed	11/10/17	

12. Adjournment - Hoolihan - The Chairman thanked ETS-Lindgren for their hospitality and the Members for their participation and adjourned the meeting at 1:29PM-CST.

***** End of Meeting *****

¹ Consolidated (re-numbered) action items are included here for reference, but are not a part of the minutes.

Consolidated Action Items from Main Committee Meeting 11/10/17²

Action Item #	Subject	Responsible Person	Status	Delivery Date	Comments
AI-38:	Dan H. to solicit Standards Council Canada regarding membership.	Dan Hoolihan	Open	5/4/18	
AI-39:	Mr. Hodes to provide contact info for SCC to Dan H.	Harry Hodes	Open	5/4/18	
AI-51:	Update all Generic SC Agendas with a step requiring SC2 and SC3 coordination <u>before</u> a document goes to Mandatory Editorial Coordination (MEC) at the IEEE.	Jerry Ramie D. Zimmerman	Open	5/4/18	New Generic SC agendas uploaded 1/26/18

Attachments from Main Committee Meeting 11/10/17^{3[1]}

Item	Description	URL
2.1	Draft agenda	http://www.c63.org/documents/misc/minutes/2017_Nov/20171110_Main_Agenda3.doc
2.2	Patent slides	http://www.c63.org/documents/misc/patents/C63_Patent_Call_slideset_final_1.pdf
3.0	Chairman's Report	http://www.c63.org/documents/misc/minutes/2017_Nov/20171109%20-%20DDH%20-%20Report%20-%20C63_PowerPoint_template2.ppt
5.1	Approved Minutes of previous meeting	http://www.c63.org/documents/misc/minutes/2017_Nov/20170511_Approved_Main_Mins.doc
5.3	Interpretation requests since last meeting	http://www.c63.org/documents/misc/minutes/2017_Nov/Interpretations_log_20171102.xls
5.4	Electronic motions since last meeting	http://www.c63.org/documents/misc/minutes/2017_Nov/Electronic_motions_2017May_2017Nov.xls
6.0	Secretariat Report	http://www.c63.org/documents/misc/minutes/2017_Nov/C63_November%202017%20Secretariat%20Update.ppt
7.0	Slide Template	http://www.c63.org/pw/c63/C63_PowerPoint_template.ppt
7.1	SC1 Report	http://www.c63.org/documents/misc/minutes/2017_Nov/SC1%20update.ppt
7.1	C63.4 Spreadsheet attach. A	http://www.c63.org/documents/misc/minutes/2017_Nov/C63.4_next_rev_PINS_items_v4.xls
7.2	SC2 Report	http://www.c63.org/documents/misc/minutes/2017_Nov/SC2_Report_to_Main_Committee_20171110_Final.pptx
7.3	SC3 Report	http://www.c63.org/documents/misc/minutes/2017_Nov/C63_Subcommittee%203%20report%20to%20C63%202017-11-9.ppt
7.4	SC4 Report	http://www.c63.org/documents/misc/minutes/2017_Nov/SC-4%20report%2011-10-17.ppt
7.5	SC5 Report	http://www.c63.org/documents/misc/minutes/2017_Nov/SC5_Report_%2020171110.ppt
7.6	SC6 Report	http://www.c63.org/documents/misc/minutes/2017_Nov/20171110%20SC6%20Main%20Report.ppt
7.7	SC7 Report	http://www.c63.org/documents/misc/minutes/2017_Nov/C63%20SC7%20-%202017%20Report%202%20-%2020171110%20-%20v1.ppt
7.8	SC8 Report	http://www.c63.org/documents/misc/minutes/2017_Nov/Main%20Committee%20Report%20-%20SC8%20-%2020171109%20v1.ppt
10.1	Education & Training report	http://www.c63.org/documents/misc/minutes/2017_Nov/November%202017%20C63%20education%20report.ppt
10.2	Newsletter report (Aug 2017)	http://www.c63.org/documents/c63/newsletters/C63_Newsletter_Aug_2017_41_Final.pdf

² Consolidated (re-numbered) action items are included here for reference, but are not a part of the minutes.