



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

May 3, 2019 – 8:00 AM to 3:00 PM-EDT
UL - LLC, Research Triangle Park, NC

Chair: [Dan Hoolihan](#)

Vice-Chair: [Dan Sigouin](#)

Secretary: [Jerry Ramie](#)

Approved Minutes

1. **Call to Order - Chair** - The meeting was called to order at 8:08AM-EDT
 - 1.1. **Introductions (roll call) - Secretary** (Revised: 25 April, 2019)

MEMBER	PRIMARY	ALTERNATE
A2LA (American Assoc. for Laboratory Accreditation)	Riebau, Megan	
ACIL (American Council of Independent Laboratories)	Repella, John	
ANAB (ANSI National Accreditation Board)	Long, Randy	Quan, Ross
Apple, Inc.	Chen, Jyun-cheng	O'Dwyer, Michael
ARRL – The National Assoc. for Amateur Radio	Hare, Ed	
Bay Area Compliance Laboratories Corp.		
Bureau Veritas	Vacant	
CISCO Systems	Griffin, Andy	
Dell Inc.		Vacant
Element Materials Technology		
Ericsson AB	Skoglund, Kenth	
ETS – Lindgren	Chen, Zhong	Kramer, Doug
Federal Communications Commission	Jones, Steve	Vacant
Food and Drug Administration	Silberberg, Jeffrey L	
Google, LLC		He, George
Hearing Industries Association		
Innovation, Science & Economic Development Canada	Nixon, Jason	
Information Technology Industry Council	Hirvela, John	
IEEE – EMC Society	Norgard, John	Benitez, Henry
Keysight Technologies	Potts, Nate	
Laird Technologies		
Motorola Solutions, Inc.	Zakharia, Deanna	
National Institute of Standards & Technology	Coder, Jason	Vacant
Nokia Bell Labs	Moongilan, Dheena	Vacant
PCTEST Engineering Laboratory		Ward, Dennis
Qualcomm Technologies, Inc.		
Resideo		

Society of Automotive Engineers		
SPAWAR - US Navy	Dilay, Chris	
TCB Council, Inc.	Harvey, Chris	Vacant
TÜV Rheinland of North America	Graff, William	Fagley, Bruce
TÜV SÜD America, Inc.	Elliott, William (Mac)	
UL-LLC	DeLisi, Bob	Moser, Jeffery
US Department of Defense - Joint Spectrum Ctr.	Shellman, Marcus	Duncanson, Michael
Individual Members:		
INDIVIDUAL Member	Hoolihan, Daniel	None
INDIVIDUAL Member		None
INDIVIDUAL Member		None
INDIVIDUAL Member		None
INDIVIDUAL Member		None
INDIVIDUAL Member	Heirman, Don	None
INDIVIDUAL Member		None
INDIVIDUAL Member		None
Emeritus Members:		
MEMBER Emeritus		None
MEMBER Emeritus		None
MEMBER Emeritus		None

Observers: Jerry Ramie, Jennifer Santulli,

Quorum: 34 organizations + 8 individual members = 42 total. A quorum is 50% +1 (rounding down); which is 22 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. Hare moved, seconded by Mr. Heirman, to accept the [Agenda](#) as shown. The agenda was approved.

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

2.3 Announcement of new members - Chair – TUVRNA , ANAB, A2LA

3. [Chairman's Report](#) – Hoolihan - Ward moved, seconded by Heirman to accept Randy Long (SC6) Bazhanov (SC7) & Berger (SC8) as SC Chairs for 3-year terms starting 1 January 2019. The motion carried unanimously

3.1 General - Awards – Bob DeLisi was presented with a plaque for his chairmanship of the Working Group that developed the Corrigendum for C63.5.



Dan Sigouin (Chair), Greg Kiemel (Vice-Chair/Secretary), and Tim Harrington (Technical Editor) were awarded plaques for their work on developing C63.25.1 – 2018. Certificates were awarded to Zhong Chen, Don Heirman, Werner Schaefer, Bob DeLisi, Khairul Zainal, and Dave Zimmerman for their support in developing C63.25.1. Pictures were taken by Jerry Ramie of the award recipients receiving their awards from the Main Committee Chair.

3.2 FCC Interactions - [C63.4a](#), Public Notice

3.3 Standards published – C63.5 –Corrigendum – 1 March 2019, C63.25.1 - 29 March 2019

4. Vice-Chairman’s Report - Sigouin - none

5. Secretary’s Report – Ramie

5.1 [Minutes of the last Meeting](#) (20181130) – **Ramie** - Hare moved, seconded by Long to accept the previous Minutes. The motion carried unanimously.

5.2 Disposition of Interpretation Requests since last meeting – Ramie

Date	Interpretations circulated or posted	Source	Result	Comments
12/7/2018	Posted C63.4 (2014) Clause 4.5 Horn antenna aperture	J. O’Neil	posted 12/7	

5.3 Open Interpretation requests - Ramie ([Interpretations Log 20181207](#)) Open are in **red**:

Date	Requestor	e-mail address	Project name	SC #	Rc’vd by Se	Sent to SC	Back fm SC
8/29/2017	Charles Wang	charles@champrotek.com	C63.4 (2014) 20170829_D3_NSA_vertical_3_meters	SC1	8/29/2017	8/29/2017	open
11/14/2017	Alexander Kriz	Alexander.Kriz@seibersdorf-laboratories.at	C63.4 (2014) Annex N.1 antenna symmetry	SC1	11/14/2017	11/18/2017	open
12/22/2017	Dave Schaefer	dschaefer@tuvam.com	C63.4 (2014) Clauses 5.5.1 & 8.2.4 sVSWR	SC1	12/22/2017	12/23/2017	open
3/7/2018	Nate Potts	nate.potts@keysight.com	C63.4 (2014) Annex N vs. C63.5 re/ symmetry	SC1	3/7/2018	3/8/2018	open

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

Date	Main Committee motion or action	Source	Result	Comments
3/26/2019	Ballot ANAB for Main Committee Membership (Long & Quan)	D. Hoolihan	closed 4/8	Yes=28, No=0, Abstain=1
4/17/2019	Ballot A2LA for Main Committee Membership (Riebau & Miller)	D. Hoolihan	closed 4/25	Yes=24, No=0, Abstain=0

5.5 Membership Changes since last meeting - Ramie

Date	Membership changes	Source	Result	Comments
12/4/2018	Add J. Repella as ACIL Primary, Reitz as Alternate	J. Repella	added 12/7	on Public, Private & Main rosters
12/4/2018	Add Jonas Friden to SC4 roster & WebEx list	B. DeLisi	added 12/14	on SC4 roster & WebEx list
12/4/2018	Ballot Edmund Lee app. SC4 membership @ Main Committee	B. DeLisi	closed 12/28	Yes=33; No=0, Abstain=0
12/5/2018	Add S. Berger as SC7 Vice Chair	S. Berger	added 12/5	on SC7 roster only
12/5/2018	Remove N. LaSorte from SC7 roster	S. Berger	removed 12/6	on SC7 roster only
12/6/2018	Add J. Becker as SC8 Vice Chair	S. Berger	added 12/6	on SC8 roster only
12/6/2018	Remove S. Jones from SC7 roster	V. Bazhanov	removed 12/6	on SC7 roster only
12/6/2018	Change Honeywell to Resideo (Ademco Inc.)	M. Antola	changed 12/10	Pub, Priv. Main, SC1, SC4 rosters
12/7/2018	Add Doug Kramer to SC6 roster	R. Long	added 12/18	on SC6 roster
12/21/2018	Change H. Hodes role in SC3 to Vice Chair	D. Heirman	changed 12/21	on SC3 roster
12/29/2018	Add Edmund Lee to SC4 roster	J. Ramie	added 12/29	on SC4 roster & WebEx list
1/8/2019	Ballot Edmund Lee application for C63.30 at SC4	B. DeLisi	closed 1/21	Yes=16, No=0, Abstain=0
1/10/2019	Ballot David Chamberlain application for C63.10 at SC4	B. DeLisi	closed 1/24	Yes=19, No=0, Abstain=1
1/10/2019	Ballot David Chamberlain application for C63.26 at SC4	B. DeLisi	closed 1/24	Yes=19, No=0, Abstain=1
1/14/2019	Add Ken Gjerde as HIA Alternate representative	J. Becker	added 1/24	on Public, Private & Main rosters
1/15/2019	Ballot TUV-RNA for organization Membership (Graff & Fagly)	D. Hoolihan	closed 1/28	Yes=22, No=0, Abstain=0
1/22/2019	Add Edmund Lee to C63.30 roster	J. Ramie	added 1/22	on C63.30 roster only
1/25/2019	Add David Chamberlain to C63.10 and C63.26 rosters	J. Ramie	added 1/25	on C63.10 & C63.26 rosters only
1/28/2019	Add TUV-RNA as Organization member (Graff & Fagly)	J. Ramie	added 1/28	Main, Pub, Priv, SC1, SC4 rosters
1/28/2019	Change Chris Harvey to TCB Council Primary rep	D. Hoolihan	changed 1/28	on Main roster only
2/7/2019	Remove Carrigan, VanVorce & Wojtaszek - C63.28WG roster	C. Dilay	removed 2/7	on C63.28 roster & WebEx list
2/7/2019	Add Frank Coleman to C63.28WG roster	C. Dilay	added 2/7	on C63.28 roster & WebEx list
2/11/2019	Remove Mike Howard from all rosters	D. Hoolihan	removed 2/12	Main, Pub, Priv, SC1,SC4,&SC6
2/15/2019	Remove Chatterjee, Doubleday, Howard, Schrafel, Zada, Shah, Pino, Long, Li, Klerer, Hagen & Anwer from C63.30 roster	A. Crumm	removed 2/18	on C63.30 roster & WebEx list
2/19/2019	Restore Dan Pino to the C63.30WG roster	T. Thul	restored 2/28	on C63.30 roster & WebEx list
2/25/2019	Ballot David Perugini application for C63.29 Membership	D. Perugini	closed 3/13	Yes=12, No=0, Abstain=0
2/25/2019	Ballot David Perugini application for C63.30 Membership	D. Perugini	closed 3/20	Yes=24, No=1, Abstain=0
2/26/2019	Remove Mike Hoffman from C63.24 roster and WebEx list	D. Heirman	removed 2/28	on C63.24 roster & WebEx list
3/6/2019	Remove G. Kiemel and R. Lee from C63.29 roster	E. Mendoza	removed 3/6	on C63.29 roster & WebEx list
3/9/2019	Ballot Grace Lin application for C63.4WG Membership	J. O'Neil	closed 3/18	Yes=20, No=0, Abstain=0
3/13/2019	Add David Perugini to C63.29 roster	J. Ramie	added 3/13	on C63.29 roster & WebEx list
3/14/2019	Remove Zach Crane from C63.24 / IEEE-473 roster	C. Kiger	removed 3/14	on C63.24 roster & WebEx list
3/15/2019	Ballot Dan Mansergh application for SC4 Membership	B. DeLisi	closed 3/30	Yes=17, No=0, Abstain=0
3/16/2019	Add David Perugini to C63.30 roster	J. Ramie	added 3/16	on C63.30 roster & WebEx list
3/18/2019	Add Grace Lin to C63.4 Membership roster	J. O'Neil	added 3/18	on C63.4 roster & WebEx list
3/18/2019	Ballot Dan Mansergh application for C63.10, C63.26 & C63.30	D. Mansergh	closed 4/2	Yes=18, No=0, Abstain=0
3/18/2019	Ballot Ross Carlton application for C63.10 & C63.26	R. Carlton	closed 4/2	Yes=18, No=0, Abstain=0
3/26/2019	Remove Mark Klerer, replace with Andy White / Qualcomm alt.	J. Forrester	changed 3/28	on Main roster only
3/30/2019	Ballot C63.10/D08 draft for approval at SC4	J. Nixon	closed 4/20	Affirm=9, Affirm w/ com=4, Abs=2
4/1/2019	Add Dan Mansergh to SC4 roster	J. Ramie	added 4/1	on SC4 roster & WebEx list
4/3/2019	Add Ross Carlton to C63.10 & C63.26 rosters	J. Ramie	added 4/3	on C63.10 & C63.26 rosters only
4/3/2019	Add Dan Mansergh to C63.10, C63.26 & C63.30 rosters	J. Ramie	added 4/3	C63.10, C63.26 & C63.30 rosters
4/3/2019	Change Fang Han address & affiliation on C63.30WG	A. Crumm	changed 4/3	on C63.30 roster only
4/8/2019	Add ANAB (Long & Quan) to Main Committee roster	J. Ramie	added 4/9	on Public, Private & Main rosters
4/9/2019	Remove Dr. Janezic of NIST (alternate) from the Main roster	J. Coder	removed 4/10	on Public, Private & Main rosters
4/17/2019	Remove Jonathan Stewart as Bureau Veritas Primary	J. Stewart	removed 4/17	on Public, Private & Main rosters
4/25/2019	Add A2LA (Riebau & Miller) to Main Committee roster	J. Ramie	added 4/25	on Public, Private & Main rosters

TUV Rheinland of North America was added 1/28/19, ANAB was added 4/8/19, A2LA was added 4/25/19.

6. [Secretariat Report – IEEE – Jennifer Santulli - AI-63: WORD template](#) link on our site is broken, Jerry and Jennifer will fix it. It was noted that equations no longer work in the Standards template, Jennifer was to check on the issue.

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 SC meetings).

Note: Reports should be provided on the [C63 Power Point template](#) (protected) and should include Scope, Duties, and Membership for 2018 for each Subcommittee. NOTE – EACH

COMMITTEE REPORT WILL BE LIMITED TO A MAXIMUM OF 15 MINUTES.

- 7.1. **SC1: Measurement and Instrumentation - Chen** - There was a change in SC1 Scope. **AI-64:** Jerry to change the Scope on the [SC1 landing page](#). Mr. Chen moved to accept the modified SC1 Scope, no second was required. The Motion carried. Mr. Chen moved to approve a PINS-C for the C63.25.3 study project, no second was required. The PINS-C was shown. Discussion ensued. The motion was called for by a voice vote. Mr. Hirvela voted no. The motion carried. Three of the four draft Interpretation Requests are ready for 14 day circulation at the Main Committee.
- 7.2. **SC2: Definitions – Shellman** - Mr. Shellman moved to approve the SC2 Scope, Duties and Rosters. The motion carried unanimously.
- 7.3. **SC3: International Standardization – Heirman** - **AI-65:** Jerry to update Chris Dilay & Randy Long affiliations on SC2 and SC3 rosters. Mr. Heirman moved to accept the Scope, Duties and Rosters for SC3. No second was required. The motion carried unanimously. Standards comparisons were shown.
- 7.4. **SC4: Wireless and ISM Equipment Measurements - DeLisi** - Mr. DeLisi moved to approve the Membership, Duties and Scope of SC4. No second was required. The motion carried unanimously by voice vote.
- 7.5. **SC5: Immunity testing – Hare** - Mr. Hare moved to approve the Title, Membership, Duties and Scope of SC4. No second was required. The motion carried unanimously.
- 7.6. **SC6: Laboratory Accreditation – Long** - Mr. Long moved to approve the Membership, Duties and Scope of SC6. No second was required. The motion carried unanimously by voice vote.
- 7.7. **SC7: Unlicensed Personal Comm. Services – Bazhanov** - Mr. Coder, substituting for Mr. Bazhanov, moved to approve the Membership, Duties and Scope of SC7. No second was required. The motion carried unanimously by voice vote.
- 7.8. **SC8: Medical Equipment Testing – Berger** - Mr. Coder, substituting for Mr. Berger, moved to approve the Membership, Duties and Scope of SC8. No second was required. The motion carried unanimously by voice vote. There was a motion from the Subcommittee to re-affirm C63.18 (2014). No second was required. Discussion ensued. The motion carried unanimously by voice vote. Jennifer Santulli of the IEEE - SA will begin re-affirmation. A ballot group was formed for C63.19 with 24 members; the initial ballot was performed and three re-circulation ballots. Voting in the initial ballot and all recirculation ballots has passed but comments were received and have been addressed each time. A fourth recirculation ballot will be undertaken by the ballot group.

8. New Business

- 8.1. **Financial report (verbal)** - We had revenues of \$116k for 2018. Expenses were \$77K, leaving a net surplus of \$39k.

9. Other Administrative Matters

9.1. Web Page – Ramie

9.1.1 The [Generic Agendas for Subcommittees](#) include a review of the Membership roster, a Quorum check, review of Membership Guidelines, Attendance Log and Members at Risk at each meeting. Spring meeting requires approval of SC Membership, review of all PINS content, the Status Matrix text and "Learn more" text for each Standard.

9.1.2

9.2. Administrative matters from the Steering Committee - Transition

period - Notes from the Steering Committee: "[Mr. Hare moved to bring a recommendation for a one-year transition period for C63 documents to the Main Committee at the November, 2019 meeting. Mr. Heirman seconded. Discussion ensued. The motion carried unanimously.](#)" The Chair noted that we will not discuss this today, but at the November 2019 meeting. Discussion ensued. Mr. Hare proposed an informational

WebEx to discuss this matter, including dated and undated references. **AI-66:** Hare to host an informational WebEx to discuss transition periods for our Standards. Jerry to provide Ed with the vmc63.xls mailing list for this purpose. Jerry will set the resulting webinar.

9.3. iMeet Central - Kramer - Doug discussed the features of iMeet Central verbally. (document mgt. and revisions) They are experiencing mixed results, but it appears that these problems have been resolved. Most feedback has been positive. A report will be presented at the next Main Committee meeting.

10. Other Business

10.1 Future Seminars and Workshops – Heirman - Don showed a Presentation. He and Janet O’Neil are organizing a workshop before the July – 2019 IEEE - EMC Symposium in New Orleans. He asked the Organizational Members if they had a need for such a workshop at their companies. A chart of suggested topics was shown. Universities are a good candidate for venues. Mr. Graff thought a short introduction to the list of documents shown would be useful. (one day before the TCB Council meeting) **AI-67:** Don Heirman and Janet O’Neil to propose scheduling an introductory tutorial at the TCB Council meeting. (Oct. 13-15, 2020?)

10.2 Newsletter report – Zimmerman - Please send your recent SC reports to Mr. Zimmerman so a newsletter can be prepared and distributed at the EMC Symposium in New Orleans.

10.3 Next meeting – Hoolihan - 11/18/19 to 11/22/19 – Keysight Technologies - Santa Rosa, CA. Nate Potts - Host , Mark Terrien - Co-host

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 11/30/18¹

Action Item #	Subject	Responsible Person	Status	Delivery Date	Comments
AI-53:	Don will report any movement of C63 material into a US National committee	Don Heirman	Closed	5/3/19	
AI-55:	Don to add a column to SC3-Table 2 to list which target committee the report is being sent to	Don Heirman	Open	5/3/19	
AI-56:	The current edition of C63.9 uses arbitrary waveforms in digital form. Mr. Hare and Mr. Berger are to work with IEEE and the C63 Chair to determine how best to distribute these waveform files	Ed Hare Stephen Berger Dan Hoolihan	Closed	12/20/18	Steve sent the waveforms to Ed some time ago and since then the WG appears to be taking the standard in a different direction and will not be using these waveforms. So there doesn't seem to be any purpose to this action
AI-58:	Jennifer to check if our members can have more than one interest category. (CL & MFG?)	Jennifer Santulli	Closed	5/3/19	
AI-59:	Harry to forward the reviewed and approved Reviewer Action reports	Harry Hodes	Open	5/3/19	

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

	to SC2				
AI-60:	Jennifer to find out when a contributor submits photos, sketches, software, firmware or data, who owns that material when it's published in a C63 Std. (may or may not have been previously published)	Jennifer Santulli	Closed	5/3/19	
AI-61:	Bob DeLisi to provide to Jerry the test statements text that was originally on the site for antenna calibration below 1GHz.	Bob DeLisi	Open	5/3/19	
AI-62:	Bob DeLisi to formulate text for antenna calibration above 1GHz between C63.5 and CISPR 16-1-6	Bob DeLisi	Closed	5/3/19	Provided 12/21/18

12. Adjournment - Hoolihan - The Chair thanked Mr. Harvey for his help with the AV. He thanked UL-LLC for their hospitality and the meeting was adjourned at 11:50AM-EDT.

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

Consolidated Action Items from Main Committee Meeting 05/03/19²

Action Item #	Subject	Responsible Person	Status	Delivery Date	Comments
AI-55:	Don to add a column to SC3-Table 2 to list which target committee the report is being sent to	Don Heirman	Open	11/22/19	
AI-59:	Harry to forward the reviewed and approved Reviewer Action reports to SC2	Harry Hodes	Open	11/22/19	
AI-61:	Bob DeLisi to provide to Jerry the test statements text that was originally on the site for antenna calibration below 1GHz.	Bob DeLisi	Open	11/22/19	
AI-63:	WORD template link on our site is broken, Jerry and Jennifer will fix it. Equations no longer work in the Standards template	Jerry Ramie Jennifer Santulli	Open	11/22/19	
AI-64:	Jerry to change the Scope on the SC1 landing page .	Jerry Ramie	Closed	11/22/19	See SC1 report Request sent 5/28
AI-65:	Jerry to update Chris Dilay & Randy Long affiliations on SC2 and SC3 rosters	Jerry Ramie	Closed	11/22/19	See SC3 report Updated 5/28
AI-66:	Hare to host an informational WebEx to discuss transition periods for our Standards. Jerry to provide Ed with the vmc63.xls mailing list for this purpose. Jerry will set the resulting webinar.	Jerry Ramie Ed Hare Randy Long	Open	11/22/19	List provided 5/28 Randy to show PPT
AI-67:	Don Heirman and Janet O'Neil to propose scheduling an introductory tutorial at the TCB Council meeting. (Oct. 13-15, 2020?)	Don Heirman Janet O'Neil	Open	11/22/19	

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

Attachments from Main Committee Meeting 05/03/19³

Item	Description	URL
2.1	Draft agenda	http://www.c63.org/documents/misc/minutes/2019_May/20190503_Main_Agenda_2.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/2019_May/190503%20-%20Chair%20Report%20-%20C63_PowerPoint.ppt
4.0	Vice Chair's Report	
5.1	Approved previous Minutes	http://www.c63.org/documents/misc/minutes/2019_May/20181130_Aproved_Main_Mins.doc
5.3	Interpretation requests since last meeting	http://www.c63.org/documents/misc/minutes/2019_May/Interpretations_log_20181207.xls
5.4	Electronic motions	http://www.c63.org/documents/misc/minutes/2019_May/Electronic_motions_2018Nov_2019May.xls
6.0	Secretariat Report	http://www.c63.org/documents/misc/minutes/2019_May/C63_May%202019%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/2019_May/SC1%20update%2020190503.ppt
7.2	SC2 Report	http://www.c63.org/documents/misc/minutes/2019_May/SC2_Report_to_Main_Committee_20190503%20Rev%202.pptx
7.3	SC3 Report	http://www.c63.org/documents/misc/minutes/2019_May/C63_Subcommittee%203%20report%20to%20C63%20May%202019.ppt
7.4	SC4 Report	http://www.c63.org/documents/misc/minutes/2019_May/Main%20Committee%20Report%20-%20SC4%2020190501.pptx
7.5	SC5 Report	http://www.c63.org/documents/misc/minutes/2019_May/Subcommittee_5_report_to_C63_May_2019.ppt
7.6	SC6 Report	http://www.c63.org/documents/misc/minutes/2019_May/20190503%20SC6%20Main%20Report.ppt
7.7	SC7 Report	http://www.c63.org/documents/misc/minutes/2019_May/SC7%20Main%20committee%20update%20-%20Spring%202019.ppt
7.8	SC8 Report	http://www.c63.org/documents/misc/minutes/2019_May/Main%20Committee%20Report%20-%20SC8%20-%20190502%20-%20v1.pptx
8.1	Financial Report	
10.1	Education & Training report	http://www.c63.org/documents/misc/minutes/2019_May/May%202019%20C63%20education%20committee%20report.ppt
10.2	Newsletters page	http://www.c63.org/documents/c63/list_of_newsletters.htm

³ Attachments are included here for reference, but are not a part of the Minutes