



American National Standards Committee C63[®] on Electromagnetic Compatibility

May 17, 2024 – 9:00 AM to 3:00 PM-EDT
UL LLC, Research Triangle Park, NC

Chair: [Bob DeLisi](#)

Vice-Chair: [Zhong Chen](#)

Secretary: [Jerry Ramie](#)

Approved Minutes

1. **Call to Order - Chair** - The meeting was called to order at 9:00AM-EDT. Welcome to the Spring meeting.

1.1. Introductions (roll call) - Secretary (Revised: 5/4/2024) (Absent) (New)

MEMBER	PRIMARY	ALTERNATE
A2LA (American Assoc. for Laboratory Accreditation)	McConnell, Megan	Miller, Rob
ACIL (American Council of Independent Laboratories)	Cardenas, Javier	Reitz, Richard
ANAB (ANSI National Accreditation Board)	Long, Randy	Quan, Ross
Apple, Inc.	Kiemel, Greg	Cuevas, Jose
ARRL – The National Assoc. for Amateur Radio	Carlson, Kermit	Anderson, Steve
CISCO Systems	Griffin, Andy	Castro, Louie
DISA/PEO Spectrum	Shellman, Marcus	Duncanson, Michael
Element Materials Technology	Molaei, Nima	Schaefer, David
Elite Electronic Engineering Inc.	Fanning, Craig	Cardenas, Javier
Ericsson AB	Skoglund, Kenth	Bria, Aurelian
ETS – Lindgren	Chen, Zhong	Vacant
Federal Communications Commission	Tarditi, Alfonso	Rison, Justin
Food and Drug Administration	Silberberg, Jeffrey L	Vacant
Google, LLC	Wong, Warwick	He, George
IEEE – EMC Society	Norgard, John	Benitez, Henry
Information Technology Industry Council	Hirvela, John	Barrett, Stephanie
Innovation, Science & Economic Development Canada	Nixon, Jason	Popovici, Horia
Intertek	Abbondante, Nick	Vacant
Keysight Technologies	Potts, Nate	Vacant
Motorola Solutions, Inc.	Zakharia, Deanna	Ho, Sze Khian
National Institute of Standards & Technology	Coder, Jason	Vacant
Qualcomm Technologies, Inc.	Forrester, John	White, Andy
Rohde & Schwarz	Rajamani, Vignesh	Payne, Rob
TCB Council, Inc.	Graff, William	Harvey, Chris
TIMCO Engineering Inc., an IIA Company	Royer, Tim	Clavier, Bruno
TÜV Rheinland of North America	Vacant	Fagley, Bruce
TÜV SÜD America, Inc.	Elliott, William (Mac)	Sellergren, Sean

UL LLC	DeLisi, Bob	Michael Antola
Individual Members:		
INDIVIDUAL Member	Hoolihan, Daniel	
INDIVIDUAL Member	Lichtig, John	None
INDIVIDUAL Member	Schaefer, Werner	None
INDIVIDUAL Member	Zimmerman, Dave	None
INDIVIDUAL Member	Berger, Stephen	None
INDIVIDUAL Member	Hodes, Harry	None
INDIVIDUAL Member	Klinger, Jeff	None

Observers: Jerry Ramie (Secretary), David Chamberlain, Ken Gjerde, Jennifer Santulli, Tom Braxton, Denys Shumakov, Richard Jankovics, Steve Jones (Member Emeritus)

Quorum: 28 organizations + 7 individual members = 35 total. A quorum is 50% (rounding up); which is **18** or more members in attendance. Quorum was achieved with **28** members attending the meeting.

2. Approval of the Agenda

2.1 Approval of [Agenda](#) - Chair - Mr. Long moved, seconded by Mr. Coder, to accept the modified Agenda. (with a new item 9.3, 9.4 & 9.5) Any objections? (none) The modified Agenda was approved.

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

3. Chairman’s Report – DeLisi

3.1 - General – See [PowerPoint slides](#) - Jason Nixon has requested to add C63 as a stakeholder for notification when a C63 Standard is incorporated into their documents as a Normative reference.

4. Vice-Chairman’s Report - See [PowerPoint slides](#)

5. Secretary’s Report – Ramie

5.1 Minutes of the last Meeting ([20231005_Main_Mins_3.doc](#)) – Ramie - Long moved, seconded by Coder to approve. Any objections? The previous minutes were [approved](#) by acclamation.

5.2 Disposition of Interpretation Requests since last meeting – Ramie - ([electronic motions log](#))

Date	Interpretations received, circulated or posted	Source	Result	Comments
11/18/2022	Received C63.4 Conducted Emissions LISN choke request	H. Nielsen	sent to SC1	Draft interp. Received 2/9/2024
5/16/2023	Received C63.5 Delta Antenna Factors request	J.H. Kim	sent to SC1	Draft interp. Received 1/23/2024
8/21/2023	Received C63.27 Tier 2 Guidance for WiFi request	R. Jankovics	sent to SC7	open
10/20/2023	Received C63.4-2014 Gaps in ground plane request	C. Wang	sent to SC1	open
12/15/2023	Received C63.4-2014 Annex F insulating ground plane	B. Hobbs	sent to SC1	open
1/23/2024	Circulated draft Interpretation C63.5 Delta Antenna Factors	J. O’Neil	sent to Main	until 2/8/24; no comments
2/12/2024	Posted C63.5 (2016) Annex F delta antenna factors	B. DeLisi	posted 2/12	
2/12/2024	Circulated draft Interpretation C63.4 Cond. Emm. LISN choke	B. DeLisi	sent to Main	until 2/26/24; no comments
2/27/2024	Posted C63.4 (2014) Conducted Emissions LISN choke	J. Ramie	posted 2/27	

5.3 Open Interpretation requests - Ramie ([Interpretations Log 20240227](#)) Open items are in **red**:

Date	Requestor	e-mail address	Project name	SC #	Rec by Sec	Sent to SC	Back fm SC
8/21/2023	Richard Jankovics	Richard.Jankovics@ul.com	C63.27 (2021) Clause A3331 Tier 2 Guidance WiFi	SC7	8/21/2023	8/21/2023	open
10/20/2023	Charles Wang	charles@champrotek.com	C63.4 (2014) 20231020_Gaps_in_ground_plane	SC1	10/20/2023	10/20/2023	open
12/13/2023	Brandon Hobbs	thesmartone057@gmail.com	C63.4 (2014) Annex F Insulating Ground Plane	SC1	12/13/2023	12/15/2023	open

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

Date	Main Committee motion or action	Source	Result	Comments
10/9/2023	Circulated C63.9 d20-2 to the Main for approval/comments	J. Ramie	Failed 11/6/23	Affirm=13, Neg=1, Abstain=8
10/27/2023	Ask for Main Committee approval of 5/12 Mins & 10/5 Agenda	J. Ramie	Passed 11/10	Affirm=22, Neg=0, Abstain=3
10/31/2023	Circulated C63.27 Corr. PINS to the Main for approval/comment	B. DeLisi	Passed 11/21	Affirm=21, Aff+C= 2, Neg=0, Abs=3
11/29/2023	Circulated C63.9 d21 to the Main for approval/comments	J. Ramie	Passed 1/12	Affirm=16, Aff+C= 1, Neg=0, Abs=9
12/14/2023	Circulated C63.10 Amd1 D0.01 to Main for approval/comments	J. Ramie	Passed 1/16	Affirm=19, Aff+C= 2, Neg=1, Abs=4
1/5/2024	Circulated C63.16 D03 to the Main for approval/comment	J. Ramie	Passed 1/26	Affirm=18, Aff+C= 0, Neg=1, Abs=9
1/18/2024	Circulated ballot on Steve Jones for Member Emeritus	B. DeLisi	Passed 2/1	Affirm=32, Neg=0, Abstain=0
2/4/2024	Circulated DRAFT 6.1 of new C63 procedures to the Main	D. Hoolihan	Until 2/18	Edited draft received 3/18
3/18/2024	Circulated DRAFT 6.1 clean of new C63 procedures to the Main	B. DeLisi	Until 4/8	Comments received

5.5 Membership Changes since last meeting - Ramie

Date	Membership changes (Main & SCs)	Source	Result	Comments
10/10/2023	Added A. Tarditi as FCC Alternate	B. DeLisi	Added 10/10	To Main, Public & Private rosters
10/13/2023	Removed D. Case from Main Committee roster	B. DeLisi	Removed 10/14	from Main roster only
10/12/2023	Changed M. Wiles affiliation to MVG	M. Wiles	Changed 10/14	on SC1 roster
10/3/2023	Added N. Abbondante & J. Nixon as SC4 Chair/Vice Chair	B. DeLisi	Changed 10/14	on SC4 roster
10/4/2023	Added Bob Mitchell fo SC1 roster page	J. O'Neil	Added 10/16	on SC1 roster
10/16/2023	Added S. Sellergren to Main roster (TUV-SUD Alternate)	W. Elliott	Added 10/17	To Main, Public & Private rosters
10/20/2023	Added C63.10 Ed. 4 roster to SC4 roster page	J. Ramie	Added 10/20	on SC4 roster
12/12/2023	Removed D. Sigouin from SC1 & SC4 rosters	D. Sigouin	Removed 12/14	from SC1 & SC4 rosters
12/12/2023	Removed HIA (K. Gjerde) from Main Committee roster	B. DeLisi	Removed 12/18	from Main roster only
12/20/2023	Changed J. Klinger affiliation to "Individual"	B. DeLisi	Changed 12/20	on SC1, 3, 4, 6, Public & Private
1/23/2024	Removed S. Jones from Main, SC4, SC1, Pub & Priv rosters	B. DeLisi	Removed 1/23	Placed on C63.10 Ed.4 roster
1/23/2024	Changed S. Jones address/affiliation on WG rosters	J. Ramie	Changed 1/23	C63.10, .10Amd, .26, MIMO, .25.3
2/8/2024	Added S. Jones as Member Emeritus	J. Ramie	Added 2/8	To Main, Public & Private rosters
3/19/2024	Removed R. Lombardi from C63.4 & C63.5 rosters & Webex	R. Lombardi	Removed 3/19	from C63.4 & C63.5 rosters
3/28/2024	Circulated N. Suryadevara app to join C63.10WG to SC4	J. Ramie	Circulated 3/28	to SC4 only for their next meeting
3/28/2024	Added R. Paxman & Y. Zhao to C63.10 Ed.4 WG roster	Chamberlain	Added 3/28	To C63.10 Ed.4 roster only
4/8/2024	Changed Duncanson & Shellman affiliation to DISA/PEO Spec.	Duncanson	Changed 4/8	on Main, Pub, Priv & SC2 rosters

6. [Secretariat Report](#) – IEEE –

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:** A short report from each Subcommittee using either the [C63 PowerPoint template](#) or the [C63 PowerPoint template wide](#). (no password required) **NOTE – EACH COMMITTEE REPORT WILL BE LIMITED TO A MAXIMUM OF 15 MINUTES.**

- 7.1. **SC1: Measurement and Instrumentation - Nixon** - Jason Nixon moved, (no second required) to remove the PINS of C63.7. The motion carried unanimously. **AI-101** Jerry to replace the PINS text to the C63.7 to read "No active PINS" status to read "Published 2015" Nixon moved to approve their Scope, Duties and Membership. **AI-102:** Jerry to remove Steve Jones from the SC1 roster. The motion carried by acclamation. (use new roster in Presentation)
- 7.2. **SC2: Definitions – Shellman** - Shellman moved, no second required, to approve their Scope, Duties, Officers and Membership. The motion carried by acclamation. **AI-103:** Jerry to post the [PDF file on how to develop a definition](#) on the Standards Development page.
- 7.3. **SC3: International Standardization – DeLisi** (Ernesto is now chair) **AI-104:** Jerry to post new roster for SC3 w/ Mendoza as Chair, Carlton resigned. Coder moved to accept the Scope, Duties & amended roster, seconded by Fanning. The motion carried by acclamation.
- 7.4. **SC4: Wireless and ISM Equipment Measurements - Abbondante** - Nick moved to accept the Scope, Duties and Roster for SC4 (no second required) The motion carried by acclamation. (Denys Shumakov to be added to SC4 roster) Nick moved to accept the new C63.29_PINS_3_2024 that was shown. (no second required) The motion carried by acclamation **AI-105:** Jerry to post new [C63.29 PINS_3](#) that was modified and approved. **AI-106:**

Jerry to send the new [C63.29 PINS 3](#) to Jennifer. **AI-107:** Jerry to circulate a call for C63.29 members at the Main & SC4 & old C63.29 roster. (Ernesto to approve text)

----- Break -----

- 7.5. **SC5: Immunity testing – Braxton** - Tom moved to accept the Scope, Duties and Roster for SC5 (no second required) The motion carried by acclamation. Dave Schaefer is now Vice Chair. **AI-108:** Jerry to add Dave Schaefer as Vice Chair of SC5 (use report).
- 7.6. **SC6: Laboratory Accreditation – Kramer** - Doug moved to accept the Scope, Duties and Roster for SC6 (no second required) The motion carried by acclamation. **AI-109:** Jerry to use this report to update the SC6 roster.
- 7.7. **SC7: Spectrum Etiquette – Coder** - Jason moved to accept the Scope, Duties and Roster for SC7 (no second required) The motion carried by acclamation. **AI-110:** Jerry to use this report to update the SC7 roster. Jason will provide new text for the landing page.
- 7.8. **SC8: Medical Equipment Testing – Berger** - Stephen moved to accept the Scope, Duties and Roster for SC8 (no second required) The motion carried by acclamation. **AI-111:** Jerry to receive email of Ardeshirpour to update the SC8 roster. (add Ardeshirpour as Member)

8. New Business

- 8.1. **New draft Procedures - 20240314 Draft 6.2 clean- Hoolihan** - The Main had until Oct. 31, 2023 to comment. The comment resolution form was shown:

C63.xx COMMENT SUBMISSION FORM							
					Date 2024-03-21	Document 20240314 - C63 - PPs - Draft 6.1 clean	Member ISED
Commenter And Number	Clause/ Subclause	Paragraph Figure/ Table	Type of comment (General/ Technical/ Editorial)	COMMENTS	Proposed change	Proposed Resolution by the Chair on each comment submitted	
ISED-1	all		E	The small text at the bottom of each page is appropriate for standards, but not so much for this document.	Suggest either deleting this altogether or at least delete the second line of this text (delete "This is an unapproved draft standard, subject to change"). If the first line is kept in, replace "2023" with "2024".	Updated to Copyright © 2024 USEMCS. All rights reserved.	
ISED-2	3	Title	G	(lines 47-48) Clause 3 has "Title" in its title. In any case, it is not clear what is the point of this title.	Delete lines 47-48. Reformat line 49 as heading 1 (will become clause 3: Scope). Delete lines 56-57 as this is redundant and has no relevance here.	Partially accepted: Chaged section to "3. Scope of American National Standards Committee C63® Electromagnetic Compatibility (EMC)". Kept sub section to point to 6.2.7	
ISED-3	5.4	1 st par.	E	(lines 166-167) The former subclause title "5.4.1 General" has been deleted, leaving a hanging paragraph between the headings of 5.4 and 5.4.1.	Insert back "5.4.1 General" (as a level-3 heading) between lines 166 and 167.	This is not a standard and not subject to IEEE style guide rules. Left as is.	
ISED-4	6.2.5	c)	E	(line 265) Incorrect cross-references.	Delete "4.3" from both cross-references. Also suggest inserting "a" and "b" as clickable cross-references to the preceding two items in this list.	Changed as suggested.	
ISED-5	7.3.1	1 st par.	E	(line 361) Level-4 subclause headings have been inserted in 7.3.1, but not right from the start, leaving a hanging paragraph in between the headings of 7.3.1 and 7.3.1.1.	Add a new heading "7.3.1.1 General" in between lines 360 and 361.	This is not a standard and not subject to IEEE style guide rules. Left as is.	
ISED-6	7.3.1.1	1 st par.	E	(line 363) The title of 7.3.1.1 used to be the beginning of this paragraph. But, with reformatting "Working Group (WG)" as a level-4 heading, the text of the first paragraph has no subject.	In line 363, replace "A" with "This is a".	Partially accepted. Merged 1 st two paragraphs to describe a working group and its functions.	
ISED-7	7.3.1.2	1 st par.	E	(line 384) Similar to ISED-6.	In line 384, replace "Consists" with "A maintenance group consists".	Partially accepted. Changed made but not exact suggestion.	
Commenter And Number	Clause/ Subclause	Paragraph Figure/ Table	Type of comment (General/ Technical/ Editorial)	COMMENTS	Proposed change	Proposed Resolution by the Chair on each comment submitted	
Kermit Carlson and Stephen Anderson (ARRL)	Section 4.2.5(a) (Review of Membership)	Paragraph (a)	General	The change in (a) states that "Failure to attend at least one meeting per year or respond to two consecutive remote administrative/procedural votes will remove a member from quorum count (removes voting rights) until such a time that they meet the requirements at which time they will be reinstated with full membership rights by either attending the next meeting or the next vote (in person or electronic)." First, the change (presumably automatically) takes away voting rights and changes membership status, generally items that should be brought to the membership for a vote (as the proposed change in 4.2.5(c) suggests). Secondly, the change is in conflict with section 8.1 which states that for "votes taken at a face-to-face meeting, those not in attendance shall have the opportunity to vote before or after the meeting."	ARRL suggests we consider another approach: 1. Roberts rules defines a quorum as the "minimum number of voting members who must be present at a properly called meeting in order to conduct business in the name of the group. A quorum should consist of "as large as can be depended upon for being present at all meetings when the weather is not exceptionally bad." Instead of the proposed change in (a), we should consider changing our quorum requirements in section 7.3 to reflect that say 2/5 (or even a percentage – e.g., 45%) of the membership be present to conduct business at main committee meetings. This can be based on our historical attendance rates, and should not change anything with respect to voting on standards or balloting requirements. 2. Section 8.1 would need to be changed to reflect that a majority "of those present" at main committee meetings is required vs. a "majority of the main committee."	Partially agreed: 6.2.5 b) change to: "For an organization or individual consultants to remain a member of the Main Committee, in-person attendance by the primary (or alternate) representative at Main Committee meetings and voting on procedural matters is required. Failure to attend at least one meeting per year or respond to two consecutive remote administrative/procedural votes will place membership at risk." 10.1 a) changed to: "Evidence of consensus in accordance with these procedures for the approval of a document or portion thereof shall be documented. Consensus is demonstrated by a vote of the Main Committee. The criterion for consensus includes a requirement that a majority of the Main Committee cast a vote (counting abstentions) and at least two-thirds	
UL-1	7.2		E	Subcommittee member removal should be treated the same as the Main Committee	Change majority to 2/3 vote	Accepted.	

Jennifer thought that "IEEE" should be removed and use "final consensus balloting groups." Bill moved, seconded by Jason to approve the edited procedures. The motion carried by voice vote. Nick Abbondante & David Zimmerman abstained. The edited procedures were approved for

circulation at IEEE and ANSI. **AI-112:** Bob to send procedures to Jennifer for circulation to IEEE and ANSI

***** LUNCH *****

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. Each Spring meeting requires approval of the SC Scope, Duties and Membership. At each Spring meeting, a review is conducted for all PINS content and the Status Matrix text and the "Learn more" text for each Standard covered by that SC.

9.2. Administrative matters from the Steering Committee - We are considering combining some subcommittees with few members or related topics. (immunity & co-existence, for example) C63.2 has a typo in the Title, we've asked Jennifer how to fix this. C63.4 contains undated references to C63.5, which uses the term ANSI. We want to use a newer term like ANSC or US EMC Standards Corp. Jennifer confirmed that C63.5 is the controlling title. Bill Hurst pointed out that the FCC has never endorsed an antenna calibration Standard. Bob asked about our petitions to the Commission. We issued a corrigendum to C63.10. We never asked the Commission to recognize it. Do we need to? 15-255 radar KDB references this, so it's covered only by this KDB. Alfonso noted that they will issue more KDBs to incorporate our Standards. It's more flexible and faster. Steve Jones thought a C63-topic KDB could be issued to address all C63 documents in one place. Bill G thought we could submit the text, which was welcomed by the FCC. **AI-113:** Bob to send Alfonso & Justin a list of topics covered by the corrigendum.

9.3. PINS for C63.29 2nd Edition - covered under SC4 report

9.4. SC7 Interpretation for C63.27 - UL submitted an interpretation request about clause A.3.3.3.1. Jason C. discussed the response, noting that the 3GPP table did not generate the correct signal. This spurred the development of the Corrigendum. The committee response was discussed. Bob asked if anyone wants to take a vote on this Interpretation response? (none) **AI-114:** Jerry to post the [C63.27 Interpretation response](#) reviewed and notify the requester.

9.5. C63.23 Working Group Chair - Bob asked for a volunteer to Chair this instrumentation uncertainty Guide.

10. Other Business

10.1 Future Seminars and Workshops – We usually hold a 2 day workshop before the EMC Symposium. Same topics as last year; C63.4 & C63.25 with CM filtering demo. There is also a Tutorial on Monday covering our Standards.

10.2 Newsletter report – Chair – latest Newsletter is from [August of 2023](#). Available [here](#). A new edition will be released just before the Symposium.

10.3 News page content - old content from [Grand Rapids](#) to be removed and updated with new information on the Symposium workshop in 2024. We will also ask for volunteers for the [C63.27 corrigendum](#).

10.4 Next meeting – Chair - Week of September 30, 2024 at Rhode and Schwarz, Dallas TX.

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 10/05/23¹

Action	Subject	Responsible	Status	Delivery	Comments
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¹ Consolidated (re-numbered) action items are included here for reference, but are not a part of the minutes.

Item #		Person		Date	
AI-84:	Harry to write a PINS-C for incorporating EMC procurement guidance for Government purchases of COTS equipment PINS-C form	Harry Hodes	Closed	Next meeting	Working with Marshall and Goddard re/ requirements. Retired individual.
AI-85:	Investigate recognition of a corrigendum by the FCC & ISED	Steve Jones Jason Nixon	Closed	Next meeting	Reminder sent 5/27 All Stds. are voluntary so recognition is also voluntary. Corr. is a stand-alone document(s) and must be recognized together with the base document. KDB is most likely
AI-88:	Harry to contact NASA components to see if there is interest in developing a design guide for anechoic chambers suitable for use in testing commercial payloads and spacecraft radars and communications equipment	Harry Hodes	Open	Next meeting	Serious interest, but security issues to be resolved. Leave open for future meeting.
AI-96:	Bob will review FCC NPRM to find out why there is a two-year transition for C63.10	Bob DeLisi	Closed	Next meeting	Response: <i>The transition is being given due to inclusion of C63.4a as a mandatory site evaluation which the FCC is giving 2 years to comply with before it's mandated through amending C63.4:2014</i>
AI-96b:	Jerry will circulate the C63.27 Corr. PINS to the Main Committee for electronic approval soon.	Jerry Ramie	Closed	Next meeting	
AI-97:	Bob to work with Steve Berger to draft a PINS to update C63.19 to include an updated reference to TIA 5050	Bob DeLisi Steve Berger	Closed	Next meeting	No PINS until TIA-5050 is published.
AI-98:	Jerry to provide Shannon with examples of insecure C63 page links being served by Google.	Jerry Ramie	Closed	Next meeting	Examples sent to Shannon on 10/30. Response: <i>Technically they're the same exact pages, just one way the link is https and one isn't, so it's not as simple as removing older pages; they're literally the same page.</i>
AI-99:	Bob to provide the link to our LinkedIn page for inclusion on our site.	Bob DeLisi	Closed	Next meeting	The link is American National Standards Committee C63@ - EMC Groups LinkedIn . Sent to Shannon 10/31

AI-100:	Bob to contact Harry regarding AI-84 & AI-88	Bob DeLisi Harry Hodes	Closed	Next meeting	
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12. Adjournment - Chair - The Chair thanked UL LLC and the Members for their efforts and adjourned the meeting at 1:52PM-EDT.

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

Consolidated Action Items from Main Committee Meeting 05/17/24²

Action Item #	Subject	Responsible Person	Status	Delivery Date	Comments
AI-88:	Harry to contact NASA components to see if there is interest in developing a design guide for anechoic chambers suitable for use in testing commercial payloads and spacecraft radars and communications equipment	Harry Hodes	Open	Next meeting	Serious interest, but security issues to be resolved. Leave open for future meeting.
AI-101	Jerry to replace the PINS text to the C63.7 to read "No active PINS" status to read "Published 2015"	Jerry Ramie	Closed	Next meeting	Text replaced 5/27
AI-102:	Jerry to remove Steve Jones from the SC1 roster	Jerry Ramie	Closed	Next meeting	Removed 5/23
AI-103:	Jerry to post the PDF file on how to develop a definition on the Standards Development page	Jerry Ramie S. Archambeault	Closed	Next meeting	File sent to Shannon on 5/29
AI-104:	Jerry to post new roster for SC3 w/ Mendoza as Chair	Jerry Ramie	Closed	Next meeting	Posted 5/23
AI-105:	Jerry to post new C63.29 PINS 3 that was modified and approved	Jerry Ramie	Closed	Next meeting	Posted 5/29
AI-106:	Jerry to send the new C63.29 PINS 3 to Jennifer	Jerry Ramie	Closed	Next meeting	Sent 5/20
AI-107:	Jerry to circulate a call for C63.29 members at the Main & SC4 & old C63.29 roster.	Jerry Ramie E. Mendoza	Open	Next meeting	(Ernesto to approve text) draft sent 5/29
AI-108:	Jerry to add Dave Schaefer as Vice Chair of SC5 (use report)	Jerry Ramie	Closed	Next meeting	Added 5/23
AI-109:	Jerry to use this report to <u>update the SC6 roster</u>	Jerry Ramie	Closed	Next meeting	Updated 5/21
AI-110:	Jerry to use this report to update the SC7 roster. Jason will provide new text for the landing page	Jerry Ramie Jason Coder	Open	Next meeting	Updated 5/29 note sent to Jason
AI-111:	Jerry to receive email of Ardeshirpour to update the SC8 roster. (add Ardeshirpour as Member)	Jerry Ramie	Closed	Next meeting	Email added 5/29
AI-112:	Bob to send procedures to Jennifer for circulation to IEEE and ANSI	Bob DeLisi	Open	Next meeting	
AI-113:	Bob to send Alfonso & Justin a list of topics covered by the corrigendum.	Bob DeLisi	Open	Next meeting	
AI-114:	Jerry to post the C63.27 Interpretation response reviewed and notify the requester	Jerry Ramie	Closed	Next meeting	Posted 5/22

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

Attachments from Main Committee Meeting 5/17/24 ^[1]

Item	Description	URL
2.1	Draft agenda	http://www.c63.org/documents/misc/minutes/2024_May/20240517_Main_Agenda_2.doc
2.2	Patent slides	http://www.c63.org/documents/misc/patents/C63_Patent_Call_slideset_final_1.pdf
3.1	Chairman's Report	http://www.c63.org/documents/misc/minutes/2024_May/C63_Main%20Committee%20-%20Chairman's%20Report%20May%202024.pptx
4.0	Vice Chairman's Report	http://www.c63.org/documents/misc/minutes/2024_May/VP%20report.ppt
5.1	Approved prev. Minutes	http://www.c63.org/documents/misc/minutes/2024_May/20231005_Main_Approved_Mins.doc
5.2	Electronic motions log	http://www.c63.org/documents/misc/minutes/2024_May/Electronic_motions_2024_2Q.xls
5.3	Interpretation log	http://www.c63.org/documents/misc/minutes/2024_May/Interpretations_log_20240227.xls
5.4	Electronic motions log	http://www.c63.org/documents/misc/minutes/2024_May/Electronic_motions_2024_2Q.xls
6.0	Secretariat Report	http://www.c63.org/documents/misc/minutes/2024_May/Secretariat%20report%20q2%202024.ppt
6.2	Status of PINS & PINS-C	https://www.c63.org/documents/misc/matrix/c63_standards.htm
7.0	Slide Template (4:3)	http://www.c63.org/documents/misc/temp/C63_PowerPoint_template.ppt
7.0	Slide Template (16:9)	http://www.c63.org/documents/misc/temp/C63_PowerPoint_template_wide.ppt
7.1	SC1 Report	http://www.c63.org/documents/misc/minutes/2024_May/SC1%20report%20to%20main_may24.ppt
7.2	SC2 Report	http://www.c63.org/documents/misc/minutes/2024_May/SC2_Committee%20Report_20240515%20Rev%201.pptx
7.3	SC3 Report	http://www.c63.org/documents/misc/minutes/2024_May/SC3_Report_to_Steering_and_Main_2024_05.ppt
7.4	SC4 Report	http://www.c63.org/documents/misc/minutes/2024_May/Main%20Committee%20Report%20-%20SC4%202024-05-16.pptx
7.5	SC5 Report	http://www.c63.org/documents/misc/minutes/2024_May/C63_SC5_Report_20240517.ppt
7.6	SC6 Report	http://www.c63.org/documents/misc/minutes/2024_May/SC6_20240517_report_to_Main_Committee.pptx
7.7	SC7 Report	http://www.c63.org/documents/misc/minutes/2024_May/SC7%20Main%20Committee%20Report%20-%20Spring%202024.ppt
7.8	SC8 Report	http://www.c63.org/documents/misc/minutes/2024_May/Main%20Committee%20Report%20-%20SC8%20-%20240510%20-%20v2.pptx
8.1	New draft procedures	http://www.c63.org/documents/misc/minutes/2024_May/20240314%20-%20C63%20-%20PPs%20-%20Draft%206.2%20clean.pdf
9.1.1	Generic SC Agendas	https://www.c63.org/subcommittees.htm
9.4	C63.27 Interp. response	http://www.c63.org/documents/misc/interpretations/C63_27_2021_20240522_Clause_A3331_Tier_2_Guidance_for_WiFi.pdf
10.3	News page	https://www.c63.org/news.htm