

Accredited Standards Committee C63[®]
Electromagnetic Compatibility
Subcommittee 3: International Standardization

Chair: Don Heirman

Vice Chair: Harry Hodes
 UL - LLC, Research Triangle Park, NC
 May 2, 2019; 8:00 AM – 10:00 AM - EDT

Secretary: Jerry Ramie

Approved Minutes

1. **Call to Order: Chair** - The meeting was called to order at 8:04 AM-EDT
 - 1.1 **Announcements: Chair's remarks** - This is the second meeting of the year for our SC. To follow our C63 operating procedures, we have to confirm the membership roster, scope and duties, and officers at this meeting. We are unique in that all the SC Chairs are members who assist us in harmonizing our work with other International SDOs and vice versa.
 - 1.2 **Meeting logistics announcements: Host** - provided info on lunch, restrooms, and access to the internet.
 - 1.3 **Introductions: Secretary – roll call** (attending members with their affiliations and guests are shown separately below) **Report any roster errors to the ASC-C63[®] Secretary**
 - 1.4 **Present membership**

Subcommittee 3 Membership Roster Shaded names were not present.

Name	Role within Subcommittee 3	Affiliation
Berger, Stephen	Chair Subcommittee 8	TEM Consulting
Bazhanov, Vladimir	Chair Subcommittee 7	VB Laboratory Services, LLC
DeLisi, Bob	Chair Subcommittee 4	UL LLC
Dilay, Chris	Member	Naval Info. Warfare Center Pacific
Griffin, Andy	Member CISPR/H Technical Advisor	CISCO Systems
Hare, Ed	Chair Subcommittee 5	ARRL
Heirman, Don	Chair Subcommittee 3; Past Chair CISPR; CISPR/A Deputy Technical Advisor	Don HEIRMAN Consultants
Hodes, Harry	Vice Chair Subcommittee 3	Bay Area Compliance Laboratories Corp.
Hoolihan, Dan	Chair ASC-C63 [®]	Hoolihan EMC Consulting
Klinger, Jeff	Member	Compatible Electronics
Kramer, Doug	Member	ETS-Lindgren
Long, Randy	Chair Subcommittee 6	ANAB (ANSI National Accreditation Board)
Mendoza, Ernesto	Member CISPR/F Technical Advisor	Signify
Popovici, Horia	Member	Innovation, Science and Economic Development Canada
Potts, Nate	Member	Keysight Technologies

Samoto, Mits	Member	Liberty Labs Asia
Shellman, Marcus	Chair Subcommittee 2	DOD – Joint Spectrum Center (JSC)
Thul, Travis	Member	Minnesota State College Southeast
Non-Voting Members		
Arnett, Dave	Liaison Member CISPR/I Technical Advisor	HP
Fanning, Craig	Liaison Member CISPR/D Technical Advisor	Elite Electronic Engineering
Hofmann, H.R. (Bob)	Emeritus Member	Hofmann EMC Engineering
Jones, Steve	Liaison Member	FCC Laboratory
Mahn, Terry	Liaison Member CISPR/B Technical Advisor	Fish and Richardson
Cibulka, Michael	Liaison Member TC77 & SC77B Technical Advisor	Rockwell Automation

AI-97: Jerry to change Mr. Dilay and Mr. Long affiliations on SC3 roster

Guests and Observers: (non-voting) Jerry Ramie, Victor Kuczynski, Jeff Evans, John Norgard, Bill Graff, Ross Quan, Michael Duncanson, Henry Benitez, Ross Carlton, Steve Jones

1.5 Quorum: (50% of roster + 1) constitutes a quorum. (rounding down) (18 roster members / 2 = 9 + 1 = 10 (therefore 10 people are required for a quorum) **Was quorum achieved? (Yes)**

2. Approval of the [Agenda](#): Secretary - Secretary scrolled through this agenda and then asked for approval. The Agenda was approved by acclamation.

2.1 Approval of the previous Minutes - [Minutes of 2/14/19](#) and [11/29/18](#) minutes were approved and no changes were requested.

2.2 Review of the [patent slides](#) – The patent slides were reviewed and no patent issues were raised.

3. Review of [Subcommittee Membership](#), - Report any errors to the Secretary

3.1 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. (insert Member Attendance Log as below)

At this point there is no plan to have any working groups so as to keep all the work at the highest level for faster action and activity.

Member Attendance Log: Any errors in the log?

2/18/16	5/10/16	9/7/16	11/7/16	5/10/17	8/21/2017	11/9/17	2/7/18	5/3/18	9/19/18	11/29/18	2/14/19	Full Name
						x		x				Berger, Stephen
x	x	x	x	x	x	x	x	x	x	x		Bazhanov, Vladimir
								x	x	x		DeLisi, Bob
x	x		x		x	x		x		x		Griffin, Andy
		a	x	x		x		x		x		Hare, Ed
x	x	x	x	x	x	x	x	x	x	x	x	Heirman, Don
			x	x				x		x	x	Hodes, Harry
	x			x		x		x		x		Hoolihan, Dan
			x	x	x	x		x	x	x		Klinger, Jeff
							x	x	x	x	x	Kramer, Doug
	x		x			x		x		x		Long, Randy
				x	x		x	x	x	x	x	Mendoza, Ernesto
					x	x	x	x	x	x		Popovici, Horia
	x			x	x	x	x	x			x	Potts, Nate
			x	x					x	x	x	Samoto, Mits
												Thul, Travis
	x			x		x		x	x			Dilay, Chris
	x	x					a	x	x		x	Arnett, Dave
x	x	x	x	x	x	x	x	x			x	Fanning, Craig
x				x		x	x	x	x		x	Hofmann, H.R.
										x		Jones, Steve
x								x				Mahn, Terry
	x		x	x	x	x	x	x	x	x	x	Cibulka, Michael
x	x	x	x	x	x	x	x	x	x	x	x	Ramie, Jerry

Any members at risk? These members are at risk: **Stephen Berger, Travis Thul** **AI-98:** Jerry to send a note to Mr. Berger & Mr. Thul notifying them of their memberships being at risk.

3.2 Consideration of new members? [Application for C63® Subcommittee Membership](#)

No considerations were brought forward

4. Approval of title, scope, Membership, Duties and Officers

1. Title: Subcommittee 3: International Standardization

2. Scope:

Subcommittee 3 provides a forum for comparing international standards activities to ASC C63® membership standards activities and makes recommendations to the C63® Main Committee on possible US positions on international EMC matters, to facilitate harmonization of national and international standards, considering US regulatory as well as commercial requirements. Subcommittee 3 may make recommendations to the C63® Main Committee about introducing the work of C63® to the US National Committee Technical Advisory Groups for submission to international standards committees.

3. Membership

See above clause 1.4

4. Duties:

SC 3 shall review international EMC standards for technical issues that may affect C63® membership standards development. These reviews may lead to recommendations for action by C63® to promote harmonization of C63® standards with international standards. Via the SC 3 liaison representatives of the USNC TAGs for international standards organizations with EMC

activities (e.g., CISPR, TC77, ISO), information is shared in both directions with the following expectation:

To take action in the form of recommendations to the parent committee (C63[®]) of possible US positions on international EMC matters with the focus of striving for harmonization of national and international standards, considering US regulatory as well as commercial requirements. Conversely, recommendations can be made to the parent committee for introducing the work of C63[®] to the USNC TAGs.

5. Standard Maintained

ANSI C63.12-2015 - American National Standard Recommended Practice for Electromagnetic Compatibility Limits and Test Levels—document is current.

6. Election of Officers - Chair

From the C63 operating procedures:

"The Chair of a Subcommittee shall be elected by the Subcommittee with a majority vote and confirmed by a majority vote of the Main Committee. The Vice Chair and Secretary shall be appointed by the Chair of the Subcommittee. The scope, duties, and membership of all Subcommittees shall be approved by the Main Committee at least annually. The officers and members of a Subcommittee need not be members of the Main Committee."

Chair: The Chair's first term continues to end of 2019; hence no election held at this meeting

Vice Chair: The Vice Chair was appointed as an officer in 2018 until his election is complete. Harry Hodes has been the appointee. Quorum was not achieved at the last meeting 2/14/19, so a motion to approve Harry Hodes as the Vice Chair was needed. Mr. Heirman moved, seconded by Mr. Hare, to approved Mr. Hodes as Vice Chair. There were **no objections** to the election of **Mr. Hodes as Vice Chair**. The chair congratulated Harry for his serving in this position which also includes keeping after the Reviewer Action Items discussed below.

5. Current Status of C63 Standards – Chair

5.1 C63.12 - EMC Limit Setting - Heirman (no activity or WG report)

5.2 Status Matrix Review (Spring meeting only) Verify accuracy of document [status matrix](#) content and report any errors to the ASC-C63[®] Secretary. **Is this information correct? (Yes)**

C63.12-2015 Learn more	EMC Limit Setting	SC3	Heirman, Don	No active PINS	Published 1/29/2016 as an update of C63.12-2007. No further work scheduled on the document. WG disbanded.
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C63.12: C63.12-2015 American National Standard for Electromagnetic Compatibility Limits-- Recommended Practice

Contact: [Heirman, Don](#) (Working Group Chair)

Scope: This recommended practice presents a rationale for developing limits and recommends sets of limits and test levels that are representative of current practice. These limits may be adjusted in particular applications as circumstances dictate.

Status: Published 29 Jan 2016.

Purchase: [IEEE Store](#). To purchase individual standards, go to the IEEE store and search on the standard number.

5.3 Status of harmonization of all C63 Standards with international equivalents - Chair

C63 documents listed below in column 1 were compared with the standards indicated in the far-right column. Also in column 4 are the reviewer action items to do the noted comparisons. Where there were reviewers already identified, they are shown as well in this column.

The comparisons are to show where harmonization may or may not be possible and what action should be taken. All this will be in the reporting form for each standard shown. Column 2 shows the subcommittee that is responsible for the standards in column 1. Column 3 is a short hand for the topic covered in the standards.

Table 1: **Comparisons of ASC-C63® Documents and International Documents**

C63® Document	SC #	Subject	International Document
C63.2	SC1	Test Instrumentation	CISPR 16-1-1 (Reviewer Action 1 - Doug)
C63.4	SC1	Measurements	CISPR 16-2-X; RA-2; CISPR 16-1-4 RA-3; CISPR 32 RA-4 Petit Doug needs a reviewer for this
C63.5	SC1	Antenna Calibration	CISPR 16-1-6 RA-5; SAE ARP 958 RA-6; CISPR 16-1-4 (RA-7)
C63.9	SC5	Office Equipment Immunity	IEC 61000-4-39 (RA-8) Griffin
C63.10	SC4	Unlicensed Transmitters	ETSI Wireless requirements? (need SC4 member's help) Bob Delisi indicated that there are so many ETSI standards that might apply that this review will not be done.
C63.15	SC5	Immunity	IEC 61000-4-x; RA-9; Heirman; CISPR 35 RA-10 Pettit
C63.16	SC5	ESD	IEC 61000-4-2; RA-11; Worley; ISO 10605; RA-12; Worley, SAE J1113-xx RA-13 Fanning
C63.23	SC1	Uncertainty	CISPR 16-4-2; RA-14; CISPR 16-1-4 RA-15
C63.24 draft	SC5	Generic In Situ Meas.	IEEE 473; RA-16;(Heirman-Kiger)
C63.25.1	SC1	Test Site Validation 1 GHz to 18 GHz)	CISPR 16-1-4 RA-17
C63.25.2	SC1	Test Site Validation 30 MHz to 1 GHz	CISPR 16-1-4 RA-17
C63.26	SC4	Licensed Transmitters	ETSI wireless requirements mmWave possible comparison. RA-18
C63.27	SC7	Co-existence	IEC 62657-2 RA-19 Berger
C63.28 draft	SC2	Best Practices	No equivalent; RA-20 Shellman
C63.29 draft	SC4	Lighting products	CISPR 15; Runway lighting under IEC 61827 RA-21 Ernesto Mendoza (waiting for maturity of C63.29 before comparison)
C63.30 draft	SC4	Wireless Power Transfer Products	Bob assigned Travis: Draft amendments to CISPR 11 (RA-22), CISPR 14-1 (RA-23), CISPR 32; (RA-24) update to CISPR 12 (RA-25)
C63.31 draft	SC4	ISM equipment (FCC MP-5)	CISPR 11; (RA-26) CISPR 14-1 induction cooking; (RA-27) DeLisi CISPR/B/672/DC (4/14/17) RA-28 CISPR/B/700/DC (2/2/18) RA-29

AI-99: Jerry to send email to Berger & Bazhanov to confirm who will work on C63.27, copy Harry for the **IEC 62657-2** document.

AI-100: Jerry to e-mail Marcus to supply a [template](#) report on to show that there is no equivalent international standard to C63.28. Don will then close the **RA-20** item.

There are 29 **Reviewer Actions** shown in Table 1. The reviewer action assignments are initially given to the Subcommittee chairs (or WG chairs or their designee) noted below to find subcommittee reviewers to do the comparisons in the above table and to fill out the comparison reports using the template provided to the SC chairs.

Harry Hodes has been assigned to follow up to close these Review Actions: The "comparison report" form that reviewers **shall** use is available [here](#).

- RA-1 thru RA-7: Kramer (**all SC1 content**)
- RA-8: Griffin
- RA-9: Heirman
- RA-10: Pettit
- RA-11 thru 13: Worley
- RA-14 & 15: Kramer
- RA-16: Heirman / Kiger
- RA-17 Kramer
- RA-18: DeLisi
- RA-19: Berger
- RA-20: Shellman
- RA-21: Mendoza
- RA-22-25: Thul
- RA-26-29: DeLisi

It was noted that reviewers for C63 subcommittee standards assigned to SC1 have been named. The information was not available for this meeting.

AI-100A: Doug Kramer to send to the SC3 secretary the list of those from SC1 that are assigned the reviewer action items noted just above.

5.4. Status of naming reviewers and reports completed

This part of the agenda will be to identify the persons named for each RA. For those named, there will be time to review what is in their report using the [report template](#).

AI-100B: Members of Subcommittee to review reports to see if they are sufficient and importantly show the need for action to harmonize. The reports are linked in the table below.

Table 2: Reviewer Actions from 2/14/19 Meeting of SC3

RA #	Task	Responsible party	Due Date	Status
RA-1	Compare C63.2 to CISPR 16-1-1	Harry Hodes	5/1/19	Open
RA-2	Compare C63.4 to CISPR 16-2-X	Doug Kramer	5/1/19	Doug will provide another person
RA-3	Compare C63.4 to CISPR 16-1-4	Doug Kramer	5/1/19	Doug will provide another person
RA-4	Compare C63.4 to CISPR 32	Ghery Petit	5/1/19	Open
RA-5	Compare C63.5 to CISPR 16-1-6	Doug Kramer	5/1/19	List identical, similar and contradictory clauses.
RA-6	Compare C63.5 to SAE ARP 958 Rev D	Doug Kramer	5/1/19	Open

RA-7	Compare C63.5 to CISPR 16-1-4	Doug Kramer	5/1/19	Open
RA-8	Compare C63.9 to IEC 61000-4-39 & IEC 61000-4-3	Jeff Evans	5/31/19	Open
RA-9	Compare C63.15 to IEC 61000-4-x	Don Heirman	2/14/19	Closed Subject to multiple people involved based on C63.15
RA-10	Compare C63.15 to CISPR 35	Ghery Pettit	5/1/19	Open
RA-11	Compare C63.16 to IEC 61000-4-2	Mike Cibulka	2/25/19	Open
RA-12	Compare C63.16 to ISO 10605 (Automotive ESD)	Rich Worley	2/28/19	Open
RA-13	Compare C63.16 to SAE J1113-xx	R. Lombardi	3/30/19	Closed
RA-14	Compare C63.23 to CISPR 16-4-2	Bob DeLisi	5/1/19	Open Record that if all the measurement uncertainty terms in the test procedure are not in CISPR 16-4-2, no MU can be calculated and hence MU does not apply, i.e. Ucispr cannot be fully computed to come up with the MU
RA-15	Compare C63.5 to CISPR 16-1-6	Nate Potts	5/31/19	Duplicate of RA-5
RA-16	Compare C63.24 draft to IEEE 473	Don Heirman Chad Kiger	2/14/19	Closed
RA-17	Compare C63.25 to CISPR 16-1-4 (two freq. ranges under C63.25.1 and C63.25.2)	Doug Kramer	5/1/19	Open
RA-18	Compare C63.26 to ETSI wireless requirements mmWave possible	Bob DeLisi	2/14/18	Closed
RA-19	Compare C63.27 to IEC 62657-2	Steve Berger	4/15/19	Open
RA-20	Compare C63.28 draft to "no equivalent"	Marcus Shellman	5/1/19	No equivalents found yet
RA-21	Compare C63.29 draft to CISPR 15 ; Runway lighting under IEC 61827	Ernesto Mendoza	2/14/18	Closed
RA-22	Compare C63.30 draft to Draft amendments to CISPR 11	Travis Thul	5/1/19	Open
RA-23	Compare C63.30 draft to CISPR 14-1	Travis Thul	5/1/19	Open
RA-24	Compare C63.30 draft to CISPR 32	Travis Thul	5/1/19	Open
RA-25	Compare C63.30 draft to CISPR 12	Travis Thul	5/1/19	Open
RA-26	Compare C63.31 draft to CISPR 11	Bob DeLisi Derek Walton	5/1/19	Open
RA-27	Compare C63.31 draft to CISPR 14-1 induction cooking	Bob DeLisi Derek Walton	5/1/19	Open
RA-28	Compare C63.31 draft to CISPR/B/672/DC (4/14/17)	Bob DeLisi Derek Walton	5/1/19	Open
RA-29	Compare C63.31 draft to CISPR/B/700/DC (2/2/18)	Bob DeLisi Derek Walton	5/1/19	Open

RA-22 to RA-29 awaiting maturity of the C63.x documents shown

AI-101: Don to provide CISPR/B/672/DC (4/14/17) and CISPR/B/700/DC (2/2/18) to DeLisi & Walton (**RA-28&29**)

AI-102: Jerry & Don to look at reports already received (linked above) and list in a table the conflicts, similarities and identical ones.

Summary:

- 1) We corrected the standard to be compared in Column 2 as needed
- 2) Third column identifies the new **RA person** responsible or kept the existing person

AI-103: Harry to send third column **RA persons** a reminder of their duty to complete their work by a date

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 – Chair.

Since there is no activity on C63.12, there are no definitions to forward to SC2 as no other standard is being developed in this Subcommittee.

AI-104: Don will review C63.12 content at our upcoming webinar

7. New Business: Chair - none

8. [C63.org](#) website use and updates: Secretary - We normally post documents to the [SC3 protected area](#). If any SC or WG needs help with this posting, contact the subcommittee secretary.

9. Review of the Action Items: Secretary

9.1 Review of Action Items from this meeting: The action items below were read to be sure those with action items understand them and agree that they will take the indicated actions.

9.2 Review of Action Items from previous meeting:

Note that the reviewer action item list is shown in Table 2 above. They are specifically directed at standards to be compared. The actions below are more general action needing to support the Subcommittee

Consolidated **Action Items from 2/14/19 Meeting of SC3**

AI #	Task	Responsible party	Due Date	Status
AI-18:	Update Tolerance Table in CISPR 32 to take advantage of the work in the C63.4 working group. (Goal is to harmonize the table between C63.4 & CISPR 32)	Mark Arthurs	5/1/19	Closed
AI-20:	Look at modulation in C63.9 with potential for introduction into SC77B through the US National Committee.	Andy Griffin	5/1/19	OPEN Unique test, possible in 61000-4-3? Modulation is not AM but more varied.
AI-26:	Review CISPR 11, CISPR 14-1 & CISPR-32 for consideration for use in C63.30.	Travis Thul	5/1/19	OPEN on-going basis
AI-27:	Review CISPR 11, 14-1 for consideration for use in		5/1/19	OPEN

	C63.31. CISPR 11 totally addresses Industrial, Scientific, and Medical device emission tests, both radiated and conducted. Maybe Derek can list what is covered and not covered in CISPR 11 or in C63.31 so it is clear where we are and where the FCC MP-5 can be bolstered with the info from at least CISPR 11 and possibly 14-1 and 14-2 (if anything)	Derek Walton Bob DeLisi		C63.31 Draft need to mature
	Horia advocating for C63.4 test methods.			
AI-36:	Supply note on progress of IEC 61000-4-3. What is happening between 1 & 6GHz? (immunity)	Andy Griffin	3/30/19	OPEN New CDV 77B-798 has replaced the old one, voting in mid-May
AI-57:	Generate comparison table to summarize requirements from 1-6 GHz. (emissions)	Andy Griffin	5/1/19	OPEN
AI-58:	Form WG with Andy, Zhong & Nate to identify a single antenna calibration requirement. (Std. Site method in ANSI, Section 5?)	Bob DeLisi Andy Griffin Zhong Chen Nate Potts	5/31/19	OPEN CISPR 16-1-6 (Cl. 8.4) is same as C63.5 (Cl 5.1.3)
AI-96A	Identify what is similar, different, or not considered per the categories in the report form and place that information into the form	Richard Worley	3/30/19	OPEN

10. Time and place of next meeting: Chair – Aug 28 (2:00 - 4:00PM-EDT) meeting set 6/4

12. Closing remarks and Adjournment: Chair - We need more reports before our next meeting. He noted that the WG developing C63.28 on EMC best practices is anxious to have these reports as part of their document probably in the form of annexes. The Chair thanked the group for their efforts and adjourned the meeting at 9:56AM-EDT.

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

Consolidated Action Items from 5/2/19 Meeting of SC3

AI #	Task	Responsible party	Due Date	Status
AI-20:	Look at modulation in C63.9 with potential for introduction into SC77B through the US National Committee.	Andy Griffin	8/28/19	OPEN Unique test, possible in 61000-4-3? Modulation is not AM but more varied.
AI-26:	Review CISPR 11, CISPR 14-1 & CISPR-32 for consideration for use in C63.30.	Travis Thul	8/28/19	OPEN on-going basis
AI-27:	Review CISPR 11, 14-1 for consideration for use in C63.31. CISPR 11 totally addresses Industrial, Scientific, and Medical device emission tests, both radiated and conducted. Maybe Derek can list what is covered and not covered in CISPR 11 or in C63.31 so it is clear where we are and where the FCC MP-5 can be	Derek Walton Bob DeLisi	8/28/19	OPEN C63.31 Draft need to mature

	bolstered with the info from at least CISPR 11 and possibly 14-1 and 14-2 (if anything)			
	Horia advocating for C63.4 test methods.			
AI-36:	Supply note on progress of IEC 61000-4-3. What is happening between 1 & 6GHz? (immunity)	Andy Griffin	8/28/19	OPEN New CDV 77B-798 has replaced the old one, voting in mid-May
AI-57:	Generate comparison table to summarize requirements from 1-6 GHz. (emissions)	Andy Griffin	8/28/19	OPEN
AI-58:	Form WG with Andy, Zhong & Nate to identify a single antenna calibration requirement. (Std. Site method in ANSI, Section 5?)	Bob DeLisi Andy Griffin Zhong Chen Nate Potts	8/28/19	OPEN CISPR 16-1-6 (Cl. 8.4) is same as C63.5 (Cl 5.1.3)
AI-96A	Identify what is similar, different, or not considered per the categories in the report form and place that information into the form	Richard Worley	8/28/19	OPEN
AI-97:	Change Mr. Dilay and Mr. Long affiliations on SC3 roster	Jerry Ramie	8/28/19	Closed
AI-98:	Send a note to Mr. Berger & Mr. Thul notifying them of their memberships being at risk.	Jerry Ramie	8/28/19	Closed sent 6/4
AI-99:	Send email to Berger & Bazhanov to confirm who will work on C63.27, copy Harry for the IEC 62657-2 document.	Jerry Ramie	8/28/19	Closed Sent 5/29
AI-100:	E-mail Marcus to supply a template report on C63.28 (This will allow Don to close the RA-20 item)	Jerry Ramie	8/28/19	Closed Sent 5/29
AI-100A	Send to the SC3 secretary the list of those from SC1 that are assigned the reviewer action items noted just above.	Doug Kramer	8/28/10	OPEN
AI-100B	Review reports to see if they are sufficient and importantly show the need for action to harmonize.	Subcommittee members	8/28/10	OPEN
AI-101:	Don to provide CISPR/B/672/DC (4/14/17) and CISPR/B/700/DC (2/2/18) to DeLisi & Walton (RA-28&29)	Don Heirman	8/28/19	OPEN
AI-102:	Jerry & Don to look at reports already received and list in a table the conflicts, similarities and identical ones	Jerry Ramie Don Heirman	8/28/19	OPEN
AI-103:	Send third column RA persons a reminder of their duty to complete their work by a date	Jerry Ramie	8/28/19	Closed Sent 5/29
AI-104:	Don will review C63.12 content at our upcoming webinar	Don Heirman	8/28/19	OPEN