

Accredited Standards Committee C63[®] Electromagnetic Compatibility <u>Subcommittee 3</u> - International Standardization Draft Minutes

Chair: Heirman, Don
Vice Chair: Schaefer, Werner
Secretary: Ramie, Jerry (non-voting)
February 18, 2016
3:00 to 5:00 pm EST

- 1. Call to Order: Chair the meeting was called to order at 3:00PM-EST
 - **1.1 Opening remarks and Announcements: Chair -** Don Heirman is the new Chairman, Mr. Andersen ended his term last year. He thought that we should meet before May to jump start the work of SC3 under the new Chair and Secretary.
 - **1.2 Meeting logistics announcements: Host** (none)
 - **1.3 Introductions: Secretary -** Those attending were Jerry Ramie, Don Heirman, Andy Griffin, Bob Hofmann, Craig Fanning, Terry Mahn, Vladimir Bazhanov,
- **2. Approval of the Agenda: Chair** the Agenda was approved by acclamation.
- **3. Presentation of** patent slides: Secretary The patent slides were shown and no patent issues were raised.
- 4. Approval of previous minutes (<u>November 2015</u>): Secretary The previous Minutes from 11/10/15 were shown in a line-by-line manner. The draft Minutes were approved by acclamation. Credentials required for access to the <u>SC3 private area</u>: subcomite3 43sta43

Al-6: Jerry to have Approved 11/10/15 Minutes posted under "Approved SC3 Meeting Minutes" in PDF.

5. Review of Subcommittee Membership: Chair - current SC3 roster from website:

Membership Guidelines for 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.

There was confirmation of the voting and non-voting members. Don emphasized that SC3 members are the technical advisors for CISPR and all of its subcommittees, as well as TC77 and SC77B. He looks forward to working closer with them to meet the scope of SC3. (see 5.5 below)

Subcommittee 3 Membership Roster

Name	Role within Subcommittee 3	Affiliation
Andersen, Poul	Member SC3	Poul Andersen Consulting
Berger, Stephen	Chair Subcommittee 8	TEM Consulting

Chen, Zhong	Chair Subcommittee 1	ETS-Lindgren
Vladimir Bazhanov	Chair Subcommittee 7	Ericsson AB
Griffin, Andy	Member SC3	CISCO Systems
Gillin, Andy	CISPR/H Technical Advisor	CISCO Systems
Hare, Ed	Member SC3	ARRL
		Don HEIRMAN Consultants
<u>Heirman, Don</u>	Chair SC3; Chair CISPR;	DOII HEIRIMAN CONSUITANTS
	CISPR/A Deputy Technical Advisor	
Haalibaa Baa		Haalibaa FMO Oanaadda a
Hoolihan, Dan	Chair C63®	Hoolihan EMC Consulting
<u>Hurst, Bill</u>	Member SC3	FCC
	CISPR Technical Advisor	
Kuczynski, Victor	Member SC3	Vican Electronics
Long, Randy	Chair Subcommittee 6	Laboratory Accreditation Bureau
Potts, Nate	Member SC3	Liberty Labs
Schaefer, Werner	Vice Chair SC3	Schaefer Associates
	CISPR/A Technical Advisor	
Dilay, Chris	Chair Subcommittee 2	DOD – Joint Spectrum Center (JSC)
Whitesell, Steve	Chair Subcommittee 5	Whitesell Consulting / TIA
Art Wall	Chair Subcommittee 4	Radio Regulatory Consultants /
		TCB
	Non-Voting Members	
Arnett, Dave	Liaison Member (non-voting)	Hewlett Packard
	CISPR/I Technical Advisor	
Fanning, Craig	Liaison Member (non-voting)	Elite Electronic Engineering
	CISPR/D Technical Advisor	
Hofmann, H.R. (Bob)	Emeritus Member SC3	Hofmann EMC Engineering
	(non-voting)	
Mahn, Terry	Liaison Member (non-voting)	Fish and Richardson
	CISPR/B Technical Advisor	
Michael Cibulka	Liaison Member (non-voting)	Rockwell Automation
	TC77 & SC77B Technical	AI-7: Jerry to add Michael Cibulka to SC3
	Advisor	roster page
Yandek, Ed	Liaison Member (non-voting)	Edward Yandek LLC
	CISPR/F Technical Advisor	

- **5.1 New chairman Chair—** already discussed above
- **5.2 Review of subcommittee membership members at risk Al-8:** Jerry to start Attendance Spreadsheet with previous attendance populated from 2014 forward.
- 5.3 Consideration of new members none
- **5.4 Selection of Secretary -** Jerry Ramie has been asked by the Steering Committee to support the work of SC3. His participation will be as a non-voting Secretary, as in SC1 & SC4.
- **5.5 Review of Scope and Duties** Scope and Duties from the <u>SC3 landing page</u> were shown:

AI-9: Jerry to send reminder to all SC3 Members to review Scope statement by 4/15/16.

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International Standardization

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.

- · Subcommittee 3 and Working Group Membership List
- Standards Developed by Subcommittee 3
- Approved Meeting Minutes
- · Meeting Schedule
- Generic Agenda

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:

Don indicated that if there were any changes to be made to the scope now is the time to bring that up. AI-10: At the May meeting, all SC chairs will be asked to present their SC scopes for C63 Main Committee approval. Any desired changes made now and agreed upon by this Subcommittee can be presented for approval by the Main committee.

5.6 Need for CISPR-TA involvement - no objections were raised by the TAs for their help with harmonization either of their documents with those in C63® or vice versa.

6. Analysis of equivalencies between C63® and IEC/IEEE standards

Don went over each of these entries indicating the general status of possible areas for harmonizing. This will have to be expanded with comments inserted for each row at our May meeting in New Jersey.

C63 [®]	SC	Subject	International	Review Leader
Document			Document	(WG Chair)
C63.4	SC1	Measurements	CISPR 16-2-X	Heirman
			CISPR 32	
C63.5	SC1	Antenna Calibration	CISPR 16-1-6	DeLisi
C63.9	SC5	Office Equipment	IEC 61000-4-3	Griffin
		Immunity		
C63.15	SC5	Immunity	IEC 61000-4-X	Heirman
			CISPR 35	
C63.16	SC5	ESD	IEC 61000-4-2	Whitesell
C63.23	SC1	Uncertainty	16-4-2	Heirman
				DeLisi
C63.24	SC5	Generic On-Site Meas.	IEEE 473	Berger - Heirman
C63.25	SC1	Test Site Validation	CISPR 16-1-4	Sigouin
		Antenna calibration site	CISPR 16-1-5	
C63.26	SC1	Licensed Transmitters	ETSI wireless	Wall
			requirements	
C63.27	SC7	Co-existence	IEC 62657-2	Berger
C63.28	SC2	Best Practices	No equivalent	Dilay
			-	•

Al-11: Don asked for a co-leader for those standards activity noted in (6) above with his name assigned in the past. He will ask this again at the next webinar.

New standards for consideration:

C63.29-draft	Lighting products	<u>SC 4</u>	Mendoza,	<u>C63.29</u>	New standard. Draft being
Learn more			<u>Ernesto</u>	<u>PINS</u>	written.
C63.30-draft	Wireless Power	<u>SC 4</u>	Thul, Travis	<u>C63.30</u>	New standard. Draft being
Learn more	Transfer Products			<u>PINS</u>	written.
C63.31-draft	ISM equipment (FCC	<u>SC 4</u>	Walton, Derek	<u>C63.31</u>	New standard. Draft being
Learn more	MP-5)			<u>PINS</u>	written.

Publication status of the above C63[®] documents to determine the appropriate time to review in more depth their content with that of international equivalents to lead to harmonization where possible

C63 [®] standard	Publication status
C63.4 (Heirman)	Published in 2014, new PINS being approved for "limited amendment" to correct site validation issues in Annex D and correct equations. Al-12: Jerry to check status of "limited amendment" PINS submitted by Don. (circulated to SC1 yet?)
C63.5 (DeLisi)	2006 edition under revision
C63.9 (Griffin)	2008 edition not under revision - most issues were editorial errors that resulted in technical problems. They are working under a PINS-C study project at the moment.
C63.15 (Heirman)	2010 edition under revision - copyright releases are being sought. Al-13: Jerry to pull Annex C out of new draft C63.15 and post it so SC3 members can use it as an example of how to prepare for seeking releases.
C63.23 (DeLisi)	2012 edition not under revision
C63.24 (Heirman)	New standard on in-situ immunity measurements (joint task with IEEE 473 which covers in-situ emission measurements) – C63.24 is a generic method extracted in large part from C63.18 (In-situ immunity measurements of medical devices in a hospital environment)
C63.25 (Sigouin)	New standard under preparation
C63.26 (Wall)	2013 edition not under revision

We are awaiting publication on these documents:

C63.27- Discuss after publication: Berger

C63.28- Discuss after publication: Dilay

C63.29- Discuss after publication: Mendoza

C63.30- Discuss after publication: Thul

C63.31- Discuss after publication: Walton

There was an open call for comments from the Members on these documents.

7. Further Standards Analysis

7.1 ASC-C63[®] member standards that need possible SC3 analysis - All 7.2 Issues from IEC (incl. CISPR & TC77), ISO and other international standards activity potentially affecting US standards development: Chair - Craig Fanning commented on the ISO automotive EMC standards. ISO SC32 (formerly TC22) is still under WG3, involved with automotive standards for vehicles and components. ISO addressed immunity tests while CISPR SC/D addresses emission measurements.. Al-14: Jerry to send Craig a copy of the most recent draft of C63.15.

8. Old Business and discussions

8.1 Smart Grid Proposals: Heirman - This is a very big topic. Where do we get involved with our C63 documents? Al-15: Jerry to post the two slides that showed the C63[®] standards that apply to emission measurements and immunity testing for Smart Grid applications. Any new C63[®] standards work since then can be added.

9. New Business:

- **9.1 Status of website** the SC3 landing page and SC3 rosters were shown.
- **10. Review of the action items from previous meetings: Secretary** Consolidated Action Items from the 11/10/15 meeting were reviewed. The Status of each item was updated as shown below.

Consolidated Action Items from 11/10/15 Meeting of C63/SC3

A 1 44	Consolidated Action Items from 11/10/15 Meeting of Cos/SCS					
Al #	Task	Responsible party	Due Date	Status		
Al-1:	Poul Andersen to raise issue about having reached the term limit as SC 3 chair in the Main Committee meeting	Poul Andersen	11/2015	CLOSED		
AI-2:	Don Heirman to pursue whether there are things in C63.4 that it would be advantageous to include in CISPR 32 and vice-versa. The question of what to display on a video screen when making measurements is of particular interest	Don Heirman	2/18/16	C63.4 WG is considering a) video display B) site validation		
AI-3:	Don Heirman to provide URL for seminar on CISPR activity and try to get permission for Poul to review http://espressoengineering.tv/db-index.asp?vid=CISPR-Report This is a video describing CISPR activities	Don Heirman	2/18/16	CLOSED		
Al-4:	WG1 Chair (Poul Andersen) to provide needed changes resulting from review of IEEE edited C63.12 document back to IEEE editors	Poul Andersen	2/18/16	CLOSED as C63.12 is about to be published		
AI-5:	Poul Andersen to provide Jerry Ramie with information for updating status (disbanding) of WG1 on web site when time is appropriate	Poul Andersen	2/18/16	CLOSED as the WG will be disbanded as its job is done		

11. Time and place of next face to face meeting: Chair - see Upcoming Meeting Schedule 5/10/16 @ IEEE headquarters in Piscataway, NJ

12. Closing remarks and Adjournment: Chair - The meeting was adjourned at 4:23PM-EST.

End of Meeting

Consolidated Action Items from 02/18/16 Meeting of C63/SC3

	Consolidated Action Items from 02/10/10 Meeting of Coolege							
ı	Al#	Task	Responsible	Due Date	Status			
l			party					
	Al-2:	Don Heirman to pursue whether there are things in C63.4 that it would be advantageous to include in CISPR 32 and vice-versa. The question of what to display on a video screen when making measurements is of particular interest	Don Heirman	5/10/16	C63.4 WG is considering a) video display B) site validation			
	AI-6:	Approved 11/10/15 Minutes posted under "Approved	Jerry Ramie	5/10/16	CLOSED			

	SC3 Meeting Minutes" in PDF			2/21/16
AI-7:	Jerry to add Michael Cibulka to SC3 roster page	Jerry Ramie	5/10/16	CLOSED posted 2/18
Al-8:	Jerry to start Attendance Spreadsheet with previous attendance populated from 2014 forward	Jerry Ramie	5/10/16	CLOSED sent 2/18
AI-9:	Jerry to send reminder to all SC3 Members to review Scope statement by 4/15/16	Jerry Ramie	4/15/16	CLOSED sent 3/2
AI-10:	At the May meeting, all SC chairs will be asked to present their SC Scopes for C63 Main Committee approval	All SC Chairs	5/10/16	
Al-11:	Don asked for a co-leader for those standards activity noted in (6) above with his name assigned in the past.	All SC Chairs	5/10/16	
AI-12:	Jerry to check status of "limited amendment" PINS for C63.4 submitted by Don. (circulated to SC1 yet?)	Jerry Ramie	5/10/16	CLOSED sent 2/18
AI-13:	Jerry to pull Annex C out of the new draft of C63.15 and post it so SC3 members can use it as an example of how to prepare for seeking releases.	Jerry Ramie	5/10/16	CLOSED posted 2/18
Al-14:	Jerry to send Craig a copy of the most recent draft of C63.15	Jerry Ramie	5/10/16	CLOSED sent 2/18
AI-15:	Jerry to post the two slides that showed the C63 [®] standards that apply to emission measurements and immunity testing for Smart Grid applications	Jerry Ramie	5/10/16	CLOSED Docs sent to Don H.