

## ANSI-Accredited Standards Committee C63®

## **Electromagnetic Compatibility**

Chair: <u>Dan Hoolihan</u>
Vice-Chair: <u>Dan Sigouin</u>
Secretary: <u>Jerry Ramie</u>

# May 07, 2015 – 8:30 am to 3:30 pm (CDT) Embassy Suites Hotel, 6300 Earle Brown Drive, Brooklyn Center, MN 55330 Approved Meeting Minutes

1. Call to Order - Chair - called the meeting to order at 8:08AM-CDT. Thanks go to Northwest EMC for hosting our meeting and to Kim Valeen for doing all the work.

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

MEMBER	PRIMARY	ALTERNATE
ACIL	Hodes, Harry	
Alcatel – Lucent	Moongilan, Dheena	Vacant
Apple, Inc.		Michael O'Dwyer
ARRL – The National Assoc. for Amateur Radio	Hare, Ed	
Blackberry Corporation		
Bureau Veritas	Stewart, Jonathan	
CISCO Systems	Griffin, Andy	
Dell Inc.		Vacant
ETS – Lindgren	Chen, Zhong	
Federal Communications Commission		Jones, Steve
Food and Drug Administration	Silberberg, Jeffrey L	
Industry Canada		Vacant
Information Technology Industry Council		
IEEE – EMC Society	Norgard, John	
Liberty Labs		Langer, Brandt
Motorola Mobility		Vacant
Motorola Solutions		
National Institute of Standards & Technology		
Northwest EMC	Ghizzone, Dean	Kiemel, Greg
PCTEST Engineering Laboratory		Ward, Dennis
Society of Automotive Engineers	Andersen, Poul	
Sony Mobile		Vacant
SPAWAR - US Navy	Dilay, Chris	Wojtaszek, Tomasz
Telecommunications Industry Association	Whitesell, Stephen	Vacant

Telecomm. Certif. Body (TCB) Council	Wall, Art	
TÜV SÜD America, Inc.		Schaefer, David
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	Schaefer, Werner	None
INDIVIDUAL Member	Zimmerman, Dave	None
INDIVIDUAL Member	Berger, Stephen	None
INDIVIDUAL Member	<u>Heirman, Don</u>	None
Emeritus Members:		
MEMBER Emeritus		None
MEMBER Emeritus		None
MEMBER Emeritus		None

**Observers:** Jerry Ramie, Pat Roder, Victor Kuczynski, Janet O'Neil, Mark Arthurs, Randy Long, Brad Moore, Allen Crumm, Jim Mills, Vladimir Bazhanov, Beth Hackett, Megan McConnell, Khairul Zainal.

**Quorum:** 28 organizations + 6 individual members = 34 total. A quorum is 50%; which is 17 or more members in attendance. Quorum was achieved with 24 members attending the meeting.

#### 2. Approval of the Agenda

- **2.1** Approval of <u>agenda</u> Chair The <u>agenda</u> was shown line-by-line. Mr. Hare moved to accept it, seconded by Mr. Hodes. The Agenda was approved as presented.
- **2.2** Presentation of <u>patent slides</u> Ramie— The <u>patent slides</u> were shown and no patent issues were raised.

#### 3. Chairman's Report – Hoolihan

- **3.1 General -** Next meeting at UL-RTP from November 9-12, 2015.
- **3.2 Awards -** Awards were given out for Standards development work. (see Newsletters)

For C63.18: Jeff Silberberg, Stephen Berger and the late Dr Joseph Morrissey

For C63.4: Don Heirman, H Robert Hofmann, Harry Hodes Tim Harrington, Andy Griffin, Dan Sigouin

For C63.7: D. Heirman, HR Hofmann, T. Harrington, H. Hodes, M Howard, R Klouda and D. Sigouin

For C63.14: M. Shellman, C. Dilay, M. Duncanson, J. Snyder, D. Ashton, and D. Southworth

**4.** Vice-Chairman's Report - Sigouin - not in attendance.

- 5. Secretary's Report Minutes of the last Meeting (November 2014) Ramie Mr. Ramie showed the <u>DRAFT Minutes Main Committee November 2014B</u> in a page-by-page manner. Mr. Silberberg had editorial comments that were not addressed previously. He agreed to supply the edits to Mr. Ramie for inclusion. Mr. Hodes moved to approve the minutes with edits, seconded by Mr. Hare. The edited Minutes were approved by voice vote.
- Secretariat Report IEEE Patricia Roder see <u>Secretariat report</u>.
  - 6.1 Status of C63® published standards
    - 6.1.1 Fourth Anniversary standards
    - 6.1.2 Ten-years or older standards

Mr. Hodes asked Ms. Roder for information on sales volume of our Standards to be included in the future. The available information is on the last slide of the <u>Secretariat report</u>.

- 6.2 Status of PINS and PINS-C See Secretariat report
- 7. Ad Hoc Committee Report on Revising our C63® Procedures Ghizzone Mr. Ghizzone showed a report on items that are being addressed in this effort. Monthly webinars are planned to address comments received. Does the Main Committee want to complete what has been started now or resolve the comments first? Mr. W. Schaefer thought there was a need to have our Standards development steps documented. Mr. Griffin is working on a flow chart, which will be provided to the Ad Hoc Committee. Mr. Hodes agreed with the need to document our process. He was also frustrated by the lack of progress on amendments, corrigenda and errata. He proposed a separate committee to do this work. Mr. Ghizzone thought that large projects don't ever get done and that adding these three items will make the work onerous. Mr. Ghizzone wanted to press forward with the present document, and then take additional input as suggested. Mr. Hodes thought that we should address amendments, corrigenda and errata now. Mr. Heirman agreed with Mr. Ghizzone that large projects don't get done. Mr. Whitesell noted that we have no conflict with ANSI, since they only want us to follow our procedures. Mr. Griffin pointed out that ANSI allows amendments and thought that it shouldn't be that difficult to add these items. Mr. Hodes suggested adding a clause noting that amendments are permitted and the same rules apply as those used for the main Standard. He thought that it would not be too onerous for Mr. Ghizzone's Ad Hoc committee to address. Al-01: Mr. Ghizzone will set up monthly Ad Hoc Committee web meetings to integrate Mr. Griffin's flow chart. AI-02: Mr. Heirman will check the ANSI essential requirements regarding amendments, corrigenda and errata and report to Mr. Ghizzone's Ad Hoc committee. Mr. Ghizzone expects to have text to review at our next meeting.
- 8. Report Art Wall Copyright issues with C63.26 Problems have been encountered in wideband consumer boosters. Detailed procedures were developed over the last two years. In this process, one manufacturer pointed out that their essential patent was being used. The working group agreed to avoid patent issues. As the document was being finished, another manufacturer stated that some of these procedures required other manufacturers' essential patents. Mr. Wall contacted Ms. Roder and received guidance. The Working Group Chair has the responsibility to ask the patent holder to provide a "letter of assurance," now posted on our Main Committee page under "Patents." The WG members also have the responsibility to notify the WG Chair early of any essential patents. Mr. Hodes noted that the purchase of an instrument that employs patented technology allows the use of such an instrument in our procedures. He asked what triggered this issue. Mr. Whitesell said it was as simple as somebody making a patent claim. The assertion of a patent claim causes the process of collecting "letters of assurance" to begin. Al-03: Ms. Roder to ask the IEEE legal department to prepare a patent tutorial for us at our next meeting.
- 9. 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 Power Point slide(s) using the C63 Template.
  - **9.1. SC1: Measurement and Instrumentation- Chen -** The <u>SC1 report</u> was shown. Mr. Chen wanted to form new Working Groups for ISM equipment, including wireless power transfer, lighting products and traditional ISM equipment. The FCC has asked us to begin these

three efforts. Mr. Chen moved to approve the <u>PINS for lighting products</u>. No second was needed. The motion carried to begin work on C63.29.

The second motion was to approve the <u>wireless power transfer (WPT) PINS</u> shown. No second was needed. Discussion of the text regarding radiated and conducted emissions, rather than radiated "field" ensued. The consensus was to leave the text as shown. The motion carried to begin work on C63.30. Mr. Silberberg asked for the WPT working group minutes. AI-04: Mr. Wall to provide the Wireless Power Transfer (WPT) minutes to Mr. Silberberg.

The third motion was to approve the "traditional" <u>ISM device PINS</u> shown. (to replace MP-5) No second was needed. The motion carried to begin work on C63.31.

There were 11 interpretation requests for SC1 in the last 18 months. The request comes in to the Secretary, who forwards it to the appropriate SC Chair to form a working group to address it. When completed, the Subcommittee reviews the document and then, if approved, it is circulated to the Main Committee for 14 days. Seven interpretations are still open under SC1.

Membership, Scope and Duties for each Subcommittee are reviewed at least annually. Al-05: Mr. Ramie to remove Mr. Hoffman from the SC1 roster. Mr. Chen moved to approve the SC1 membership and the motion passed by voice vote.

**9.2. SC2: Definitions – Dilay -** The <u>SC2 report</u> was shown The Scope was changed since the last meeting. The SC2 roster was also shown. Al-06: Mr. Dilay to remove Mr. Ramie from the SC2 membership roster. The SC2 leadership roster was shown. Mr. Shellman has stepped down. SC2 duties were then shown. Mr. Dilay moved to approve the Scope, Duties and Membership of SC2. No second was required and the motion carried by voice vote.

The C63.14 revision PINS was shown. The motion to approve prevailed.

- 9.3. SC3: International Standardization Andersen The SC3 report was shown. The Scope is unchanged. Duties (Main activities) from the SC3 web page were shown. Al-07: Mr. Ramie to change SC3 web page to show "Duties" rather than "Main Activities" and post the new SC3 Membership roster, which was slightly changed. Al-08: Mr. Ramie will add C63.12 to the list of SC3 Duties. Al-09: Mr. Ramie to separate the voting and non-voting members in the SC3 roster. Mr. Andersen moved to approve the Scope, Duties and Membership as shown. No second was required and the motion carried.
- **9.4.** SC5: Immunity testing Whitesell The SC5 report was shown. The Membership, Scope and Duties were presented. Mr. Whitesell moved to accept the Membership, Scope and Duties as shown. The motion carried. Status of the projects was shown. A new PINS-C study project for updating C63.9 and the topics to consider was shown. The Chair asked for volunteers for this effort. Mr. Whitesell moved to accept the C63.9 PINS-C with editorial changes. No second was required and the motion carried.

C63.16 ESD Test Methods Guide was circulated on 4/20/15. Two yes votes were received with four abstentions. Mr. Whitesell stated that "the email process did not work." The Mandatory Editorial Coordination (MEC) feedback from IEEE was received. That text was integrated on Monday, May 4 with a few editorial changes and became Draft 3.0. It was sent to the Main Committee yesterday, May 6. Mr. Whitesell moved to approve a C63.16 balloting group and proceed to a formal IEEE ballot. No second was needed. The motion carried. Al-10: Ms. Roder to form the balloting group and run a formal C63.16 ballot on Draft 3.0.

There has been no progress on C63.24 on Generic In-Situ Immunity Evaluation. There were no volunteers. Mr. Heirman offered to make one last effort to find volunteers to work on it before it is cancelled. Discussion ensued. Mr. Berger wanted to cancel the project now. Mr. Heirman pointed out that the interfering sources were known transceivers of any modulation type. Mr. Berger suggested that not all sources were known. Mr. Hodes thought this effort might be valuable, although his conversations with chip manufacturers indicated that they had no interest. He also pointed out that the Navy will not communicate about how their surveys are

conducted. He added that "nobody wants to pay to have the work performed."

**9.5. SC6:** Laboratory Accreditation – Long - The <u>SC6 report</u> was shown. The Scope, Duties and Membership were shown. There were two working groups. Mr. Hoffman has been removed from the roster. Mr. Long moved to approve the Scope, Duties and amended Membership Roster as shown in the report. No second was needed. The motion carried.

Working Group and Liaison reports were then shown. Accreditation Body status reports were also reviewed.

9.6. SC7: Unlicensed Personal Comm. Services – Berger - The SC7 report was shown. A PINS-C study project was proposed for Measurements of an Ambient RF Environment. Jason Coder of NIST was the proposed Chair of the study project. It is focused on local monitoring of radio frequency (RF) spectrum. Mr. Berger showed the proposed <a href="Standardized Data Collection PINS-C">Standardized Data Collection PINS-C</a> for this study project. He moved to have the PINS-C approved as shown. The motion passed.

The Scope, Duties and Membership were presented. The active project (Duty) in SC7 is on C63.27 for the Evaluation of Wireless Coexistence. Webinars are running every other week. A draft is being prepared. Mr. Berger moved to approve the Scope, Duties and Membership as presented. The motion carried.

**9.7. SC8: Medical Equipment Testing – DeLisi -** The <u>SC8 report</u> was shown. The Scope, Duties and Membership were presented. Mr. DeLisi moved to approve the Scope, Duties and Membership and the motion passed.

The only working group report was from WG2 on C63.19, since disbanded, on hearing aid compatibility with wireless phones. The FCC wanted further work on this document, reflected in the PINS-C shown for a new study project on updating C63.19. Mr. DeLisi moved to approve the C63.19 PINS-C shown. The PINS-C was approved.

The FDA liaison report was shown. ASHRAE proposed dropping the humidity in surgical suites from 30% down to 20%, without consideration for the effects on the equipment. AAMI is considering work on these humidity effects in operating suites.

#### 10. New Business

- 10.1. Proposal to change standards revision process Schaefer We considered Mr. Schaefer's proposed changes in our revision process at the Steering Committee meeting last night. Al-11: Mr. Hoolihan to propose changes in our standards revision process in response to Mr. Schaefer's input.
- **10.2. Interpretation Response Times Hoolihan -** We have adopted the new <u>operating</u> procedures and have experienced delays in getting Interpretations done in a timely manner.

#### 11. Other Administrative Matters

- **11.1. Web Page Ramie -** Members need to police their content on the site and send any desired corrections to Mr. Ramie visually, showing what "correct" content looks like to avoid language misunderstandings.
- 11.2. Administrative matters from the Steering Committee Mr. Heirman discussed the meaning of members being "at risk." Membership Guidelines have been added to each Subcommittee roster page, both for the Subcommittees and their Working Groups. These guidelines noted how members may become "at risk" but did not define what would happen next. He noted that the Steering Committee is considering further clarification of this.

#### 12. Other Business

- 12.1 Future Seminars and Workshops Heirman The Education Report was shown. 2015 workshop offerings in Santa Clara were presented. Speakers were those involved in generating the Standards. Plans for the Dresden workshops were shown. (Two days) Seven additional standards were listed that might need workshops. If any member Organization would like a workshop presented at their facility, they are available. We are willing to sign NDAs so we can discuss organization-specific concerns. It has been suggested that we offer Workshops after our bi-annual meetings, like the one being given tomorrow at Northwest EMC in Minneapolis. We always wait until after publication of the latest Standard to offer a workshop. Speakers always have to have been involved in the generation of the Standard. We are always searching for speakers. We pay all expenses for those speakers, and try to offer a reasonable honorarium for their services.
- **12.2 Newsletter report Zimmerman -** We published the latest newsletter (2014 November Newsletter Issue 38) in January. Please send timely summaries of your subcommittee activities to Mr. Zimmerman for inclusion in the next newsletter.
- **12.3. Next meeting –** UL Research Triangle Park, NC, Nov. 9-12, 2015.

#### 13. Old Business

13.1 Action item review on items not covered elsewhere on Agenda – as time permits – Secretary - Action Item status is shown below:

Consolidated Action Items from Main Committee Meeting 11/13/14<sup>1</sup>

Action	Subject	Responsible	Status	Delivery	Comments
Item#		Person		Date	
AI-83:	Don Heirman to pass around topics for consideration in the next edition of C63.4 to the main committee for additional comments	Mr. Heirman	Closed	5/7/15	
AI-85:	C63.2 working group membership will be provided to the Secretary by Mr. Schaefer	Mr. Schaefer	Closed	<del>5/7/15</del>	
		<b>New Action Items</b>	+		
<del>AI-90:</del>	Steve and Poul to change Membership verbiage to clarify Subcommittee attendance rules, subject to review by e- mail	Steve Whitesell Poul Andersen	<del>elosed</del>	5/7/15	
<del>AI-91:</del>	Pat to seek clarification from ANSI on members dying or becoming sick during a ballot	Pat Roder	<del>closed</del>	5/7/15	Indicate why ballot group is smaller
AI-92:	Pat to ask third-party resellers for sales figures on our Standards	<del>Pat Roder</del>	<del>closed</del>	5/7/15	
AI-93:	Don Heirman will issue a formal call for volunteers to serve on the C63.4 working group	Mr. Heirman	<del>closed</del>	5/7/15	
AI-94:	Steering committee to respond to Mr. Schaefer's submission about dated references	C63® Steering Committee	Open	5/7/15	
AI-95:	The Chairman is to provide the US-EMC Standards Corporation MOU to the Main Committee	<del>Dan Hoolihan</del>	<del>closed</del>	5/7/15	
AI-96:	C63® members are asked to endorse the workshop activities	C63® members	<del>closed</del>	5/7/15	
AI-97:	C63® members are asked to advertise our workshops in their company and	C63® members	<del>closed</del>	5/7/15	

<sup>&</sup>lt;sup>1</sup> Consolidated (re-numbered) action items are included here for reference, but are not a part of the minutes.

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	trade organization				
AI-98:	C63® members are asked to identify	C63® members	<del>closed</del>	<del>5/7/15</del>	
	venues and events where our workshops can be held				
AI-99:	C63® members are asked to consider	C63® members	<del>closed</del>	5/7/15	
	hosting a workshop				

Note: Action Items will be re-numbered back to AI-01.

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### **End of Meeting**

Consolidated Action Items from Main Committee Meeting 05/07/15<sup>2</sup>

Action Item #	Subject	Responsible Person	Status	Delivery Date	Comments
AI-94:	Steering committee to respond to Mr. Schaefer's submission about dated references	C63® Steering Committee	Open	11/12/15	
		New Action Items			
AI-01:	Mr. Ghizzone will set up monthly Ad Hoc Committee web meetings to integrate Mr. Griffin's flow chart.	Mr. Ghizzone	Open	11/12/15	
AI-02:	Mr. Heirman will check the ANSI essential requirements regarding amendments, corrigenda and errata and report to Mr. Ghizzone's Ad Hoc committee	Mr. Heirman	Open	11/12/15	
AI-03:	Ms. Roder to ask the IEEE legal department to prepare a patent tutorial for us at our next meeting	Ms. Roder	Open	11/12/15	
AI-04:	Mr. Wall to provide the Wireless Power Transfer (WPT) minutes to Mr. Silberberg	Mr. Wall	Open	11/12/15	
AI-05:	Mr. Ramie to remove Mr. Hoffman from the SC1 roster	Mr. Ramie	CLOSED	11/12/15	<del>5/22/15</del>
<del>Al-06:</del>	Mr. Dilay to remove Mr. Ramie from the SC2 membership roster	Mr. Dilay Mr. Ramie	CLOSED	<del>11/12/15</del>	<del>5/22/15</del>
Al-07:	Mr. Ramie to change SC3 web page to show "Duties" rather than "Main Activities" and post the new SC3 Membership roster	Mr. Ramie	CLOSED	<del>11/12/15</del>	<del>5/22/15</del>
Al-08:	Mr. Ramie will add C63.12 to the list of SC3 Duties	Mr. Ramie	CLOSED	<del>11/12/15</del>	<del>5/22/15</del>
<del>Al-09:</del>	Mr. Ramie to separate the voting and non-voting members in the SC3 roster	Mr. Ramie	CLOSED	<del>11/12/15</del>	5/22/15
AI-10:	Ms. Roder to form the balloting group and run a formal C63.16 ballot on Draft 3.0	Ms. Roder	Open	11/12/15	
Al-11:	Mr. Hoolihan to propose changes in our standards revision process in response to Mr. Schaefer's input	Mr. Hoolihan	Open	11/12/15	

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<sup>&</sup>lt;sup>2</sup> Consolidated (re-numbered) action items are included here for reference, but are not a part of the minutes.

Attachments from Main Committee Meeting 05/07/15<sup>3</sup>

Agenda	Description	Filename
Item #		
2.1	Draft agenda	http://www.c63.org/documents/misc/minutes/2015 May/2015 May main committee agenda Rev3.docx
2.2	Patent slides	http://www.c63.org/documents/misc/minutes/2015 May/slideset.pdf
5.0	Approved Minutes of previous	http://www.c63.org/documents/misc/minutes/2015 May/Approved Minutes Main Committee November 2014B.d
	meeting	<u>oc</u>
6.0	Secretariat Report	http://www.c63.org/documents/misc/minutes/2015 May/Secretariat report 20150507.ppt
7.0	Ad Hoc Committee report	http://www.c63.org/documents/misc/minutes/2015 May/Ghizzone 07 MAY2015 Update.pptx
8.0	Patent Statements	http://www.c63.org/documents/misc/patents/patent index.htm
9.0	Slide Template	http://www.c63.org/pw/c63/C63 PowerPoint template.ppt
9.1	SC1 Report	http://www.c63.org/documents/misc/minutes/2015 May/SC1 update20150507.ppt
9.1	PINS - lighting products	http://www.c63.org/documents/misc/minutes/2015 May/PINS Lighting Products 5 6 15.docx
9.1	PINS - Wireless Power Trans.	http://www.c63.org/documents/misc/minutes/2015 May/PINS WPT 5 6 15.docx
9.1	PINS - ISM test procedures	http://www.c63.org/documents/misc/minutes/2015 May/PINS ISM eqmt 5 6 15.docx
9.2	SC2 Report	http://www.c63.org/documents/misc/minutes/2015 May/SC2 Report to Main Committee 20150507 Rev1.pptx
9.2	C63.14 PINS	http://www.c63.org/documents/misc/minutes/2015 May/Draft PINS C63 14 2019.doc
9.3	SC3 Report	http://www.c63.org/documents/misc/minutes/2015 May/SC3 Spring 2015 Report.ppt
9.4	SC5 Report	http://www.c63.org/documents/misc/minutes/2015 May/SC5 Report 20150507 R2.pptx
9.4	C63.9 PINS-C	http://www.c63.org/documents/misc/minutes/2015 May/C63 9 PINS C 20150505 R2.doc
9.5	SC6 Report	http://www.c63.org/documents/misc/minutes/2015 May/201505 SC6 Report Main.pptx
9.6	SC7 Report	http://www.c63.org/documents/misc/minutes/2015 May/SC7 Report 20150505 v1.ppt
9.6	PINS-C Spectrum Data	http://www.c63.org/documents/misc/minutes/2015 May/PINS C Standardized Spectrum Data Collection.doc
9.7	SC8 Report	http://www.c63.org/documents/misc/minutes/2015 May/SC8 Report 20150507.ppt
9.7	C63.19 PINS-C	http://www.c63.org/documents/misc/minutes/2015 May/C63 19 PINS C 05 06 2015.doc
12.1	Education & Training report	http://www.c63.org/documents/misc/minutes/2015 May/2015 C63 education report.ppt
12.2	2014-Nov. Newsletter	http://www.c63.org/documents/c63/newsletters/C63 Newsletter Feb 2015 38%20-%20Final.pdf

<sup>3</sup> Attachments are not a part of the meeting minutes. They may be downloaded from the <u>Last Meeting Minutes</u> page of the <u>C63.org</u> website.