# C63® American National Standards Committee C63®

## Electromagnetic Compatibility

## Subcommittee 3: International Standardization

**Chair: Ross Carlton**          **Vice Chair: Ernesto Mendoza**          **Secretary: Jerry Ramie**

Webinar
May 10, 2023; 1:00 PM – 2:30 PM - EDT
**Approved Minutes**

1. **Call to Order:  Chair** - The meeting was called to order at 1:01PM-EDT

    1.1    **Announcements:  Chair's remarks –** Welcome to the meeting!

    1.2    **Meeting logistics announcements:  Host**  (N/A)

    1.3    **Introductions: Secretary – roll call** (attending members with their affiliations and guests are recorded separately below)

    1.4    **Present membership:  Report any roster errors to the ASC-C63® Secretary**

**Subcommittee 3 Membership Roster**. See errors, absences and excused absences below:
**Mike Cibulka** has left Rockwell without a forwarding address.  Ed Hare has been replaced by Tom Braxton.

| Name | Role within Subcommittee 3 | Affiliation |
|---|---|---|
| Abbondante, Nick | Liaison Member<br>US CISPR/A Technical Advisor | Intertek (Primary) |
| Carlton, Ross | Chair Subcommittee 3 | Gibbs & Cox (EMC Society Expert) |
| Coder, Jason | Chair Subcommittee 7 | NIST (Primary) |
| DeLisi, Bob | Chair Subcommittee 4 | UL LLC (Primary) |
| Fanning, Craig | Liaison Member<br>US CISPR/D Technical Advisor | Elite Electronic Engineering (Primary) |
| Griffin, Andy | Member<br>US CISPR/H Technical Advisor | CISCO Systems (Primary) |
| Hare, Ed | Chair Subcommittee 5 | ARRL (Primary) |
| Hodes, Harry | Member | Consultant |
| Hoolihan, Dan | Chair ASC-C63® | Hoolihan EMC Consulting |
| Klinger, Jeff | Member | Cetecom, Inc. |
| Kramer, Doug | Chair Subcommittee 6 | Apple Inc. (Technical Expert) |
| Mendoza, Ernesto | Vice Chair Subcommittee 3<br>US CISPR Technical Advisor<br>US CISPR/F Technical Advisor | Signify |
| Popovici, Horia | Member | Innovation, Science and Economic Development Canada (Alternate) |
| Potts, Nate | Member | Keysight Technologies (Primary) |
| Shellman, Marcus | Chair Subcommittee 2 | DOD – Joint Spectrum Center (JSC) (Primary) |
| **Non-Voting Members** | | |
| Arnett, Dave | Liaison Member<br>US CISPR/I Technical Advisor | Garmin |
| Cibulka, Michael | Liaison Member<br>TC77 & SC77B Technical Advisor | MC Lab Services |
| Hofmann, H.R. (Bob) | Emeritus Member | Hofmann EMC Engineering |
| Jones, Steve | Liaison Member | FCC Laboratory |

| Mahn, Terry | Liaison Member US CISPR/B Technical Advisor | Fish and Richardson |
|---|---|---|
| Pettit, Ghery | Liaison Member CISPR/I Chair | Pettit EMC Consulting, LLC |

**Guests and Observers:** (non-voting) Jerry Ramie, David Chamberlain, Jason Nixon, Aurelian Bria, Henry Benitez, Victor Kuczynski, Randy Long, Michael Duncanson, Marcus Shellman, Alain Abou-Zeid, Mark Arthurs, Janet O'Neil

**1.5     Quorum: (50% of roster) constitutes a quorum.** (rounding up) (15 roster members / 2 = 7.5 >> 8 (therefore **8 people** are required for a quorum) **Was quorum achieved? (Yes)**  If not, any actions taken are subject to confirmation by electronic ballot or at a future meeting. (Quorum is not required for Working Group meetings)

## 2.     Approval of the Agenda:  Secretary - The Agenda was approved by acclamation.
**2.1     Approval of the previous Minutes -  20230222**  The previous Minutes were reviewed in a line-by-line manner and approved by acclamation.
**2.2     Review of the patent slides –** The patent slides were reviewed and all agreed to abide by the policies shown.

## 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.

**Member Attendance Log:  Any errors in the log?**

| 2/13/20 | 5/28/20 | 9/9/20 | 12/3/20 | 3/3/21 | 5/26/21 | 8/25/21 | 12/15/21 | 3/2/22 | 5/17/22 | 11/8/22 | 2/22/23 | Full Name |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  | x | x | x | x | x | x | x | x | x | Abbondante, Nick |
|  |  | x | x | x | x | x | x | x | x | x | x | Carlton, Ross |
| x | x | x | x | x | x | x | x |  | x | x | x | Coder, Jason |
| x | x | x |  | x | x | x | x | x | x | x | x | DeLisi, Bob |
| x | x |  |  |  | x | x | x | x | x | x |  | Fanning, Craig |
| x | x |  | x |  | x | x |  | x | x | x | x | Griffin, Andy |
|  |  | x | x | x |  |  |  |  |  | x | x | Hare, Ed |
|  |  |  |  |  |  |  |  |  |  |  |  | Hodes, Harry |
|  | x | x | x | x | x | x | x | x | x | x | x | Hoolihan, Dan |
|  |  |  |  |  |  |  |  | x | x | x | x | Klinger, Jeff |
|  | x |  |  | x | x |  | x | x | x | x | x | Kramer, Doug |
| x | x | x | x | x | x | a | x | x | a | x | a | Mendoza, Ernesto |
| x | x | x | x |  | x | a | x | x | x |  | x | Popovici, Horia |
| x |  |  | x | x | x | x | x |  | x | x |  | Potts, Nate |
|  | x |  | a | x |  | x |  |  | x |  | x | Shellman, M. |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | x |  |  |  |  | Arnett, Dave |
| a | x | x | x | x | x | x |  | x |  |  |  | Cibulka, Michael |
|  |  | x |  | x |  | x | x | x |  |  | x | Hofmann, H.R. |
| x |  |  |  | x | x |  | x | x | x |  | Jones, Steve |
|  |  |  |  |  |  |  |  |  |  |  |  | Mahn, Terry |
|  |  | x | x | x | x |  | a | x | x |  | x | Pettit, Ghery |
| x | x | x | x | x | x | x | x | x | x |  | x | Ramie, Jerry |

**Any members at risk?  None** are at risk.

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

## 4. Status of harmonization projects - Chair

Status of harmonization of C63 documents with documents of other Standards Development Organizations (SDOs) is summarized in Table 1. Status is provided by the cognizant Subcommittee.

**Table 1: ANSC-C63® Document Harmonization Summary**

| ANSC-C63® | | | Other SDO | | Status |
|---|---|---|---|---|---|
| **Document** | **SC** | **Subject** | **Document** | **Harmonization Goal** | |
| C63.16 | SC5 | ESD Guide | IEC 61000-4-2 | * Proposed Annex H is C63.16-2016 Clause 7<br>* Proposed Annex I subclause I.2 contains material from the fourth paragraph of C63.16-2016 Clause 9 and an excerpt from Figure 11.<br>* Proposed Annex I subclause I.3 is C63.16-2016 subclause 6.4.5.2.<br>* Proposed Annex I subclause I.4 is adapted from C63.16-2016 Annex A and includes Table A.2 and Table A.3. | Rejected by TC77 by 1/24/23 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

## 5. Other Old Business: Chair

**5.1 Existing harmonization project reports -** Written or verbal reports of the status of harmonization projects and needs for liaison support shall be presented by the responsible Subcommittee Chair. Written reports shall be made using either the [C63_ PowerPoint template](#) or the [C63_PowerPoint_template_wide](#). Prior to the SC3 meeting, the [SC report](#) shall be provided to the projectionist for showing on the screen at the SC3 meeting.

**5.2 Liaison needs –** Identify needs and potential candidates for liaisons to facilitate harmonization projects. No new needs were identified at the last meeting. No liaison is shown for TC77 on the SATCOM site. Victor Kuczynski sent a text to Mr. Cibulka, he responded with a new address. Henry B. asked if we kept the previous tables with lists of Standards. (Yes, they're in our older Minutes) Bob noted we will port to other SDOs, not the reverse. We take info from SCs to get us onto other SDO agendas. Ernesto noted that our SCs evaluate their documents for recommendations to SC3 for harmonization. Ernesto volunteered to temporarily act as our TC77 liaison until another candidate emerges.

**5.3 Harmonization process –** Discuss and develop harmonization processes and guidance for Subcommittees. Review the new changes to the process flow chart in **Item 6.2** below.

**5.4 C63.12 –** This document will be allowed to expire in 2025 since the need for such a standard has been overcome by events.

## 6. New Business: Chair -

**6.1 New harmonization projects –** Discuss new harmonization projects for documents under development by the Subcommittees.

**6.11 - C63.16 Guide to ESD Testing** - Silberberg - harmonize with IEC 61000-4-2?
**Discussion:** Our content was not accepted by TC77 when it was offered earlier this year. Real-world field failures sometimes cannot be duplicated using IEC 61000-4-2, so C63.16 has unusual methods that may use lower humidity during the testing. Adoption by TC77 is unlikely. <mark>AI-159:</mark> Ross, Jerry & Jeff S. to review SC5 & C63.16WG Minutes for a record of their contact with TC77 and store in the SC3 folder and the Harmonization Summary table.

**6.2 SC3 Scope, Duties and Tasks** – There were <u>no comments</u> on the Scope at our last meeting. Only a Scope and Duties (Tasks) are required by our policy. As a result our new Scope, Work Flow, & General Tasks (Duties) are shown below:

*Subcommittee 3 (SC3) is responsible for promoting and facilitating harmonization of C63 publications with those developed by national and international standards bodies. SC3 establishes and maintains liaisons with these standards bodies or the appropriate national committee to facilitate coordination and cooperation. SC3 is also responsible for writing and maintaining existing and proposed C63 standards as assigned by the Main Committee American National Standards Committee (ANSC) C63.*

**Work Flow:**



4
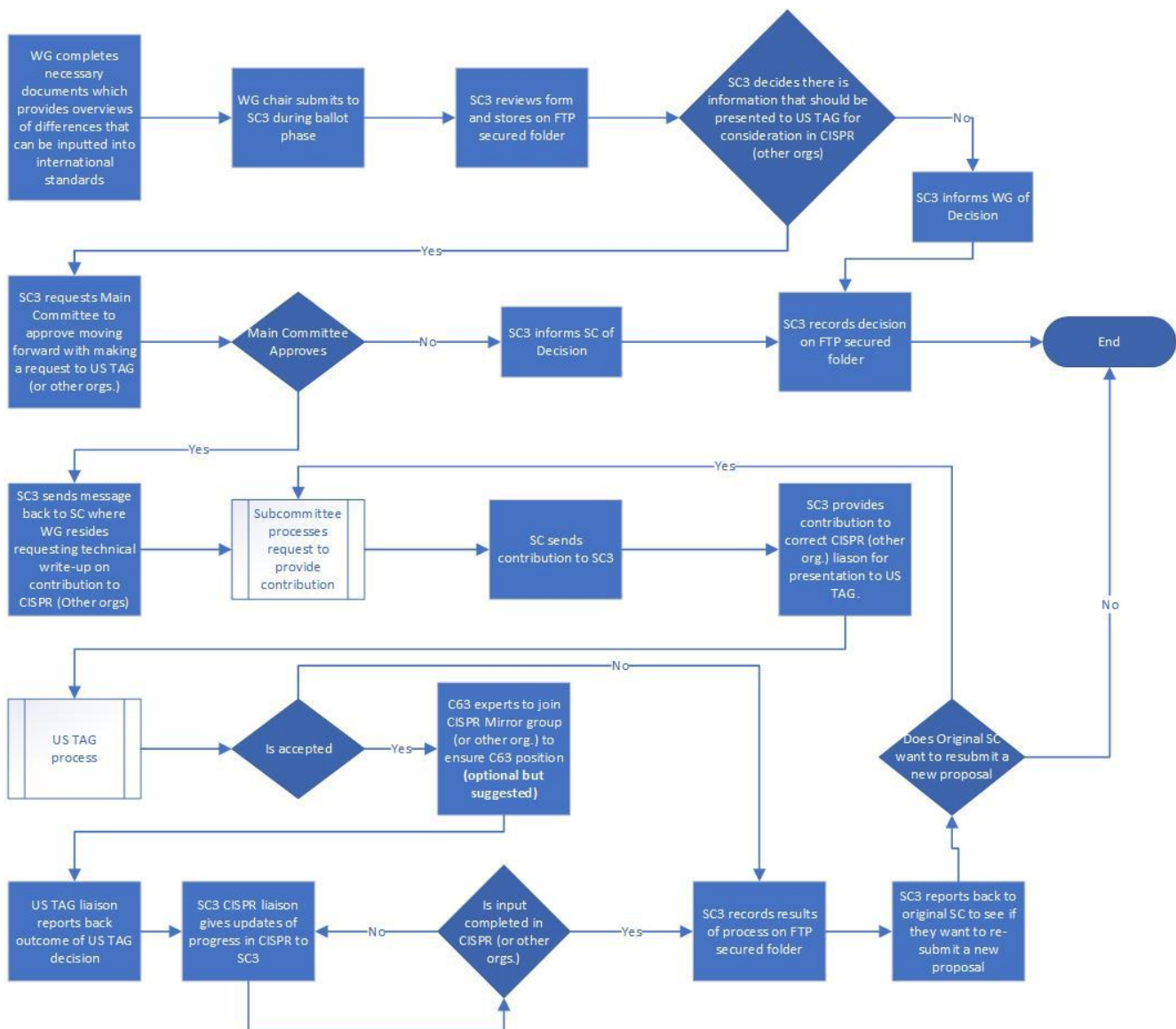
**General Tasks:**

~~1) For each PINS already in force or newly-prepared by C63® or its subcommittees, SC 3 shall prepare a statement on the relation of the proposed or existing standard to existing international standards or those in development.~~

~~2) When requested by the parent committee to review a specific C63® member standard, SC 3 shall prepare a statement on the relation of the proposed or existing member standard to existing international standards or those in development.~~

~~3) In cases where harmonization with an international standard is not considered appropriate, SC 3 shall summarize the differences in technological applications, government regulations, or practical considerations that justify differences between US standards and international standards.~~

~~4) SC 3 shall make recommendations to C63® regarding which international standards should be adopted directly as US national standards.~~

~~5) SC 3 may recommend to C63® that the standards work of C63® be used as input (via the liaisons with the USNC TAGs) to appropriate international standards for which the liaison members are responsible.~~

**Membership Criteria**

There are two classes of membership: regular members and liaison members.

**Regular Members:**

For regular membership consideration, applicants are required to attach a resume to the application form highlighting their expertise in electromagnetic compatibility and the type of contributions they can provide of interest to Subcommittee 3.  Subcommittee membership requires Subcommittee approval and a C63® vote and, if approved, notice of acceptance will be sent to the applicant.  For name and address of the Subcommittee Chair and for Subcommittee projects, please see the Subcommittee listings on the C63® web site at www.C63.org

See "Membership and Working Group Roster" page for additional criteria for continued membership

**Liaison Members:**

Liaison members are special non-voting members as by virtue of their positions may be needed to conduct SC3 business that covers topics of the standards committees which they represent.  The liaison members of Subcommittee 3 consist of the technical advisors (TAs) and deputy technical advisors (DTAs) of the IEC USNC TAGs which have as their main scope EMC topics.  These members are approved by the regular members of the subcommittee and the parent committee as noted for regular members.  Should the need arise to include additional liaison members during the year (in addition to those included on the SC membership list approved at the first C63® meeting of the year) as a result of special circumstances (i.e., the individual can contribute significantly to the work of the Subcommittee), liaison membership may be granted after approval by the Regular Members of the Subcommittee and a parent committee vote.

NOTE:  Fees for membership, meetings, and other costs are covered in the general fee structure on the C63® web site.  Liaison members will not have a regular membership fee but may be charged a meeting fee to offset meeting expenses.

**Last Updated 12/01/2022**

**7.  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, a Technical Secretary is available to assist.

## 8. Review of the Action Items: Secretary

### 8.1 Review of Action Items from previous meeting:

**Consolidated Action Items from 02/22/23 Meeting of SC3**

| AI # | Task | Responsible party | Due Date | Status |
|---|---|---|---|---|
| AI-156: | Jerry to add Doug Kramer to SC3 Webex list. (remove Randy Long) | Jerry Ramie | 5/10/23 | Closed added 2/22 |
| AI-157: | Ross to mark up the flow-chart and have Bob address the changes requested. Review at the next meeting. | Ross Carlton Bob DeLisi | 5/10/23 | Closed (JPG) |
| AI-158: | Jerry will delete the General Tasks above | Jerry Ramie S Archambeault | 5/10/23 | Closed posting order sent 2/22; reminder sent 4/6 |

**8.2 Review of Action Items from this meeting—Secretary** - The Action Items from this meeting were reviewed and understood by those involved.

## 9. Next meeting: Chair – **August 16, 2023 @ 2:00PM-Eastern (1 hour)** (only **if** documents are to be considered)  The next Main Meeting will be the week of October 2-6, 2023 @ Google in Mtn. View.

## 10. Closing remarks and Adjournment:   Chair - The Chair thanked the members and guests for their participation. The meeting was adjourned at 2:18 PM-EDT.

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

**Consolidated Action Items from 05/10/23 Meeting of SC3**

| AI # | Task | Responsible party | Due Date | Status |
|---|---|---|---|---|
| AI-159: | Ross, Jerry & Jeff S. to review SC5 & C63.16WG Minutes for a record of their contact with TC77 and store in the SC3 folder and the Harmonization Summary table | Ross Carlton Jerry Ramie Jeff Silberberg | Next meeting | Closed posted 5/15 |