**IEEE EMC Society**

**Standards Development and Education Committee**

**(SDECom)**

<http://www.emcs.org/standards/sdecomindex.html>

**Attendees:**

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| --- | --- | --- |
| Alistair Duffy (Chair)Ed Hare (VP Standards)Christine BlairColin BrenchDavid TraverDavy PissoortDon Heirman | Craig Fanning (Vice-Chair)Fred HeatherGhery PetitHenry BenitezHiroshi InoueJen Santulli (IEEE SA)Jennifer Dimar | Ross Carlton (Secretary)Jerry RamieJoanna McLellanJohn NorgardKeith ArmstrongLarry CohenMike OliverRandy Long |

**July 30, 2018 09:00-11:15 Long Beach, CA, USA**

1. **Call to Order and Introductions Chair**

The Chair opened the meeting by welcoming the attendees and establishing the ground rules for the meeting. The Chair also summarized the program of work for the meeting.

Attendees then introduced themselves, their affiliation, and their interest in standards development.

1. **Approval of Agenda Secretary**

The draft agenda was reviewed. No changes were identified. Motion to approve the agenda was made by Kimball Williams, seconded by John Norgard. The motion passed unanimously.

***GENERAL ITEMS TO NOTE***

1. **Show IEEE Patent slides Chair**

Attendees were notified of the rules regarding the discussion of patented work. The attendees were polled for comments on or issues with the rules with none being raised.

***ADMINISTRATIVE ITEMS FOR ACTION***

1. **Minutes of Previous Meeting Secretary**

The draft minutes were reviewed but approval was deferred to a future meeting.

1. **Actions of the Previous Meeting Secretary**
	* Action 2017-4 – Ed Hare: Setup email reflector for WG Chairs. OPEN.
	* Action 2017-8 – Alistair Duffy: Ask Janet about R1-R7 use of booth. Can the booth be shipped internationally? OPEN.
	* Action 2017-10 – Ed Hare: Send balloting instructions to membership by email. OPEN.
	* Action 2017-14 - Ed Hare: Determine which WGs plan to meet in Singapore. Ed requested WGs to disclose meetings to be held in Singapore. Few if any WGs will meet in Singapore. CLOSED.
	* Action 2017-16 – Alistair Duffy & Ed Hare: Prepare the 1-hour SDECom presentation for Singapore. Added Ed Hare to the Action. CLOSED.
	* Action 2017-17 - Ed Hare: Work with IEEE SA for SDECom to become a co-sponsor for P1613. SDECom will apply to be a co-sponsor. OPEN.
	* Action 2017-19 – Alistair Duffy: Check with Mike Oliver for the % complete of the draft of P2425. OPEN.
	* Action 2017-20 – Henry Benitez: Attempt to get a copy of a white paper by Hori/Mendoza on limits for load ports referenced during the C63.29 session and send to SDECom. OPEN.
	* Action 2017-21 – Henry Benitez: Send a sanitized version of the C63 presentation to the Secretary for inclusion in the Minutes. OPEN.
	* Action 2018-01 – Ross Carlton: Find out more information on the Standards games. OPEN.
	* Action 2018-02 – Don Sweeny: Encourage SDECom members to join at least one team. OPEN.
	* Action 2018-03 – ALL: Email the Chair with your selected team or teams. OPEN.
	* Action 2018-04 – Larry Cohen: Seek interest within NTIA and US Military for participation in P377. OPEN.
	* Action 2018-05 – Ed Hare: Arrange for a P377 study group to meet in Long Beach. OPEN.
	* Action 2018-06 – Davy Pissoort: Send the 1302 draft to the SDECom Chair when available. OPEN.
2. **Structure and Activities of SDECom**

The Chair reviewed the structuring of SDECom into ‘Teams’. All SDECom members who have not done so were REQUIRED to inform the chair about the teams they wish to contribute to prior to the physical meeting in Long Beach. Teams are expected to organize and conduct business independently during the Symposium week and report their status at the Thursday meeting.

While the official membership of SDECom is large, responses were received by only members.

The Chair reviewed the teams and members in attendance selected their desired team(s). In addition, preliminary assignments were made for SDECom members not in attendance.

The revised team list is shown in Appendix 1.

1. **Arrangements for the Conference Week**

Standards Week will become an official part of the technical program for the 2019 Symposium in New Orleans and will have its own call for technical sessions.

SDECom reviewed the proposed Call for Standards Sessions. No changes were recommended.

The Committee discussed concepts for Standards Week content. All current delivery methods are available: technical sessions, poster sessions, workshops, tutorials, panels, standards WG meetings, etc. Potential topics discussed included:

* Introduction to Standards Development
* EMC-S Standards Process
* EMC-S Standards Status/Update
* Focus on an individual Standard
1. **Standards reports**

The current list of standards in development is located on the SDECom web site at:

<http://www.emcs.org/standards/sdecom/Standards_Matrix.html>

The current standards in development and standards requiring attention were reviewed.

Project 1613: Standard for Environmental and Testing Requirements for Intelligent Electronic Devices (IEDs) Installed in Transmission and Distribution Facilities

* Jerry Ramie presented an overview of PJ1613 including its status, gaps, and areas of concern for the EMC-S. Notable is that immunity requirements in the standard are set by function and not operational environment.

PC37.90.2 - Standard for Withstand Capability of Relay Systems to Radiated Electromagnetic Interference from TransceiversStandard for Environmental and Testing Requirements for Intelligent Electronic Devices (IEDs) Installed in Transmission and Distribution Facilities

* Jerry also discussed the work in progress under PC37.90.2 with no input from the EMC-S.

**Action 2018-07** – Jen Santulli: Add EMC-S as co-sponsor to both P1613 and PC37.90.2 – both standards with significant EMC content.

Project 1848: Techniques & Measures to Manage Risks With Regard to Electromagnetic Disturbances

* New project. Draft pending final editorial changes.
* There have been a number of issues in that some of the WG members want 1848 to be a direct copy of the IET source document. However, while the IET document is widely applicable, the focus of 1848 is on EMC. This requires a tailored document but there is also a recognition of the need to minimize differences where possible.
* The final issue is related to the bibliography. The WG would like to use the Bibliography as formatted in the IET source document; however, IEEE SA style rules require an alphanumeric order. The concern is that change would impede harmonization by making cross-referencing difficult. There was discussion by the members for an against the WG position. No consensus was reached.
1. **Standards Association**

This topic was deferred to Thursday.

**August 2, 2018 15:00-17:00 Long Beach, CA, USA**

1. **Team Leadership**

Each of the team were to report their leadership and membership at this time. Due to limited number of members currently assigned to teams, this item is deferred to a later date to be handled by email.

1. **Standards reports**

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The current standards in development and standards requiring attention were reviewed.

Project 1613: Standard for Environmental and Testing Requirements for Intelligent Electronic Devices (IEDs) Installed in Transmission and Distribution Facilities

* Jerry Ramie presented an overview of PJ1613 including its status, gaps, and areas of concern for the EMC-S. Notable is that immunity requirements in the standard are set by function and not operational environment.
* EMC-S is seeking co-sponsorship.
* The WG intends to de-scope 1613 from substation & distribution to just substation. They would refer to C37 for requirements on distribution. The vote to change the PAR is reported as failing by one vote.
* Ed Hare motioned for SDECom to seek co-sponsorship of all C37.90 standards (i.e. C37.90.1, C37.90.2 and C37.90.3). Seconded by Ghery Petit. All subsequent discussion was supportive. The motion passed unanimously.
* Please note that Jerry Ramie is our official liaison to these WGs but we need more participation – particularly at meetings.

**Action 2018-08** – Jen Santulli: Add EMC-S as co-sponsor to PC37.90.1 and PC37.90.3.

Project 1848: Techniques & Measures to Manage Risks With Regard to Electromagnetic Disturbances

* Recent ballot was positive.
* Received approximately 60 comments. None serious.

Project 2715: Guide for the Characterization of the Shielding Effectiveness of Planar Materials

* New project. Draft in progress.
* Davy Pissoort reports that progress has been good over the last year. Round robin testing is currently in progress with approximately 10 labs and research institutions. They have about 8 test samples. We can expect a report on the round robin test results in the Sep/Oct 2018 time frame.

Project 2716: Guide for the Characterization of the Effectiveness of Printed Circuit Board Level Shielding

* New project. Draft in progress.
* Davy Pissoort reports that they needed much more research, which delayed the start. The WG is currently holding monthly meetings. Samples have been sent to RF test labs.

Std. 1302-2008/Project 1302: Guide for the Electromagnetic Characterization of Conductive Gaskets in the Frequency Range of DC to 40 GHz

* Expires 31 December 2018.
* Chair is Johan Catrysse.
* Draft complete and in final editorial review.
* Balloting will be slightly delayed again to by the end of the year.
* SDECom desires to extend the PAR beyond the 12/31/18 deadline to ensure there are no schedule issues. Craig Fanning motioned to extend the PAR by 1 year. Seconded by Ed Hare. No discussion. Approved unanimously.

**Action 2018-09** – Jen Santulli: Begin the process to extend the P1302 PAR by 1 year.

Project 2425: Standard for Electromagnetic Compatibility Testing of Electrical and Instrumentation and Control Equipment at Nuclear Power Generating Stations and Other Nuclear Facilities

* New project. Draft in progress.
* Mike Oliver is our liaison. EMC-S is co-sponsor.
* Mike Oliver reported that progress was made at the May 2018 meeting.

**Action 2018-10** – Mike Oliver: Send report on May 2018 P2425 meeting to the Secretary.

Std. 1597.1-2008/Project 1597.1: Standard for validation of CEM Computer Modeling (CEM) and Simulation

* Expires 31 December 2018.
* Chair is Alistair Duffy.
* Alistair Duffy reports that there has been last-minute input from the WG…..
1. **Reports from SDECom representation on other bodies**

ANSI C63 met at IEEE HQ in Piscataway, NJ from April 30, 2018 to May 4, 2018. Joh Norgard provided a report on the meeting.

**Action 2018-11** – John Norgard: Send report on April/May ANSI C63 meeting to the Secretary.

1. **Possible New Standards**

No specific proposals were made.

It was noted that TC4 is interested in developing a standard for the shielding of cables. TC4 is planning a study group to determine if a PAR should be created. More information will be sought.

Fred Heather noted that TC5 may be interested in developing a Lightning standard, based somewhat on RTCA DO-160. He will be putting together a PAR if there is enough interest.

1. **ACEC**

The next meeting of ACEC is planned for October 27-28, 2018 in Bussan, South Korea. Our representative, Don Heirman, will present a summary at the next SDECom meeting. He noted that any IEEE standard not covered by the scope of an existing IEC, CISPR or ISO standard is eligible to become a “dual-logo” standard.

**Action 2018-12** – Don Heirman: Create an initial list of IEEE standards which could be considered for a “dual-logo” standard.

***CLOSING ITEMS***

1. **Other Business**

Members asked if the SDECom Secretary could send an Outlook meeting notice for future meetings.

**Action 2018-13** – Ross Carlton: Send an Outlook meeting announcement for the April 2019 meeting.

Members asked if we could acquire improved webinar capabilities for SDECom.

**Action 2018-14** – Ed Hare: Work on an improved webinar capability.

Christine Blair asked to become a member of SDECom.

**Action 2018-15** – Ed Hare: Send SDECom membership information to Christine Blair.

1. **Review of New Action Items Secretary**

New Action Items assigned during this meeting are as follows:

Action 2018-07 – Jen Santulli: Add EMC-S as co-sponsor to both P1613 and PC37.90.2 – both standards with significant EMC content.

Action 2018-08 – Jen Santulli: Add EMC-S as co-sponsor to PC37.90.1 and PC37.90.3.

Action 2018-09 – Jen Santulli: Begin the process to extend the P1302 PAR by 1 year.

Action 2018-10 – Mike Oliver: Send report on May 2018 P2425 meeting to the Secretary.

Action 2018-11 – John Norgard: Send report on April/May ANSI C63 meeting to the Secretary.

Action 2018-12 – Don Heirman: Create an initial list of IEEE standards which could be considered for a “dual-logo” standard.

Action 2018-13 – Ross Carlton: Send an Outlook meeting announcement for the April 2019 meeting.

Action 2018-14 – Ed Hare: Work on an improved webinar capability.

Action 2018-15 – Ed Hare: Send SDECom membership information to Christine Blair.

1. **Adjournment of meeting Chair**

 The next meeting of SDECom is planned for 26 October 2018 in St. Louis, MO.

The Chair closed the meeting by thanking the attendees.