

SDCom Annual Meeting
Minneapolis MN
Part I
August 19, 2002
8 – 10 AM

1. Call to Order Berger
2. Introductions and Approval of Agenda Berger

Present: Berger, Traver, Denny, Heirman, Joffe, Kraemer, Showers, Bronaugh, Sato, Sweeney, Butler, Drozd. Absent: Hoolihan, Ritenour.

Visitors: Dale Svetanoff (P299), Rockwell Collins; Kermit Phipps (P1560), EPRI; Akira Sugiura, Tohoku University; Frank Eliot, Consultant; Dr. William Croissant, ERDC CERL; Wayne Hunter, Agilent Technologies; Warren Kesselman, Treasurer, EMCS Board of Directors.

Agenda adoption moved by Mr. Heirman. Accepted by voice vote.

3. Review and Approval of Minutes of Previous Meeting Denny

No corrections or additions made to May 2002 meeting minutes. Moved adoption by Mr. Heirman. Adopted by voice vote. Approved minutes will be posted on EMCS Standards web site: <http://www.emcs.org/>

4. Status of Standards and PARs Berger

4.1. Std 187-1990 (R1955), “*IEEE Standard on Radio Receivers: Open Field Method of Measurement of Spurious Radiation from FM and Television Broadcast Receivers.*”

Traver

This standard was originally issued in 1951 and was updated in 1991 to address UHF tuners and wireless remote controls. This current effort will revise the standard to address A/V, video and digital inputs and outputs and high definition digital tuners, and will harmonize the setup to be compatible with ANSI C63.4. The working group reports that the first draft of the revised standard is almost complete and they announced that another meeting was scheduled for later in the week. (The presentation slides can be reviewed via access through the EMCS web site.)

In the discussion period, Mr. Berger mentioned anecdotal comments about digital TV causing interference in hearing aids. He asked if there was any reflection of impulsive (digital processing) emissions in their standard? Heirman indicated that the document should have international application. He suggested that the references to the FCC rules should be in an annex as an example of such rules leaving room for any future non-US centric language. **A.I. Mr. Heirman to provide to Mr. Traver his markup at the symposium showing how non-US centric only wording can be addressed.**

- 4.2. Std 299-1997 “*IEEE Standard for Measuring the Effectiveness of Electromagnetic Shielding Enclosures.*” Svetanoff
A copy of Mr Svetanoff’s report is Attachment 1.

A.I. Secretary to confirm the deadline date for completion for PAR 299.

- 4.3. Std 473-1985 (R1997), “*IEEE Recommended Practice for an Site Survey (10 KHz to 10 GHz).*” Joffe

Mr. Joffe’s report can be reviewed on the above web site.

The ensuing discussion focused on the topic of “uncertainty.” It was noted that CISPR documents already discuss “uncertainty” in considerable detail, so there is no need to include a comprehensive treatise in IEEE EMCS standards. However, the committee agreed that there is a need for a discussion on uncertainty in individual standards to emphasize how is to be applied in the specific technical area. Mr. Berger appointed an *ad hoc* committee consisting of Mr. Bronaugh as Chair, Mr. Heirman as Vice Chair, and Mr. Joffe and Mr. Kraemer as members. **A.I. This committee was charged with developing a generalized set of paragraphs on uncertainty that could be tailored for particular standards as they are revised or developed.**

- 4.4. P1560, “*Proposed Methods of Measurement of Radio Frequency Interference Filter Suppression Capability in the Range of 100 Hz to 40 GHz.*” Phipps

Mr. Phipps’ Power Point presentation can be reviewed on the web site. Mr. Phipps indicated that the working group had concluded that the scope of the standard should be slightly different from that contained in the original PAR. The Committee emphasized that the words in the final document must not be at variance with the approved PAR. **A.I: Therefore, the Working Group was instructed to submit a new PAR to reflect consensus word change to be more in line with present scope wording.**

Question: How close is the P1560 Working Group to meeting the current deadline dates for completion? Ans: currently on schedule.

Since the proposed standard address power line components, the question of personnel safety arose. The Working Group was advised to avoid any discussion or words that would indicate that adherence to this standard will meet safety standards. Safety topics should be referenced to IEEE or other approved and published standards.

- 4.5. P1597 “*Proposed Standard for Validation of Computational Electromagnetic Computer Modeling and Simulation.*” Drozd

Mr. Drozd gave an abbreviated version of his Workshop (MO-PM-WS6) presentation to be given later on in the day. (The Power Point slides can be viewed at

the web site.) Mr. Drozd reports that Working Group P1597 is coordinating with TC-9. The Committee recommended that SC-34 also be included in the coordination list.

10:00 Recess until Wednesday Morning

Part II
August 21, 2002
7 – 9 AM

ATTENDANCE: Members: Denny, Berger, Heirman, Joffe, Sweeney, Bronaugh, Kraemer, Sato, Drozd, Showers.

Visitors: Dr. Johan Catryssee (P1302), KHBO; Dale Svetanoff (P299); Dr. Jose Perini, Member, Board of Directors; Wayne Hunter; Akira Sugiura; Shirish Shah, Compatible Electronics.

4.6. Std 1302-1998, "*IEEE Guide for the Electromagnetic Characterization of Conductive Gaskets in the Frequency Range CD to 18 GHz.*" Catrysse

The Working Group met for the first time in Minneapolis, MN on August 22, 2002. Professor Johan Catrysse was elected Chairman, Gary Fenical was elected Vice-Chair and Joe Butler was elected Secretary. Ten working group members were present. The group discussed areas of the standard that need upgrading and assigned pertinent action items to get documents and standards to allow the work to proceed. IEEE STD 1302 will continue to be a "guide" to EMI gasket shielding effectiveness measurement standards, although some committee work to be done potentially by Southwest Research may develop into a new proposed standard for measurements over 10 GHz. The next meeting of the group is potentially at the Zurich EMC symposium but definitely at the Boston 2003 EMC Symposium. An EMCS newsletter article will be written to attract working group members. First draft of the revised standard is forecasted to be available May 15, 2003.

4.7. Std 1309-1996, "*IEEE Standard for Calibration of Electromagnetic Field Sensors and Probes Excluding Antennas from 9 kHz to 40 GHz.*" Kraemer

The report on P1309 is Attachment 2. **AI: Kraemer to ask Ms. Patricia Gerdon of the IEEE Standards Office for an editable Word copy of the existing version of Std- 1309.** Based on the outstanding nature of this report, Mr. Sweeney asked that **A.I. Mr. Kraemer prepare a narrative of his standard revision process.** Once prepared, the **A.I. Secretary will circulate the document to the SDCom members and to the Working Groups for comment.** Once adopted, **A.I. the Secretary will post the writeup to the SDCom web site under "Guidance for WGs."**

5. Status of Stds-139, -376, -377, -475, -1128, & -1140.

Denny

- 5.1.Std-139-1988, “*Recommended Practice for the Measurement of RF Emissions from ISM Equipment on User’s Premises.*” The standard is under review with the FCC and for potential international applications. **A.I. Mr. Berger to contact the FCC for their comments and recommendations. A.I. Prepare an announcement on proposed action on Std-139 for the EMCS Newsletter.**
- 5.2.Std-376-1975, “*Measurement of Impulse Strength and Impulse Bandwidth,*” (ANSI Recognized) **A.I: Dr. Showers asked to review the standards and recommend course of action to the Committee.** Mr. Werner Schaefer was suggested as a potential lead for revising and/or updating this standard. **A.I. The Secretary was asked to contact Mr. Schaefer and to also contact the IEEE Standards Office to ascertain the level of demand for this standard.**
- 5.3.Std-377-1980, “*Recommended Practice for the Measurement of Spurious Emissions from Land Mobile Communication Transmitters.*” (ANSI Recognized). Reaffirmation ballot in the process of being issued.
- 5.4.Std-475-2000, “*Measurement of Field Disturbance Sensors,*” (ANSI Recognized) Current.
- 5.5.Std-1128-1998, “*Measurement of RF Absorbing Materials.*” Dr. Jose Perini to lead the revision/update effort. **A.I. Dr. Perini was asked to provide his recommendations to the Committee by January 1, 2003.**
- 5.6.Std-1140-1994, “*Measurement of E & H Fields from Video Display Terminals.*” Mr. Dheena Moongilan agrees lead an effort to review the document for possible revision and update. **A.I. Moongilan will be asked to present a plan for revision by the March 2003 meeting.**

6. SDCom Administration

Berger

6.1.Status of Web site

Denny

The SDCom web site is fully operational and updates are posted as needed. Go to the “Standards” button and it will take you to the Vice President for Standards page. From there, you can access the SDCom, the SETCom and SACCom pages.

6.2.Changes in Membership Requirements

Berger

Mr. Berger reminded everyone of the changes in membership requirements to become effective as of January 1, 2003. The new requirements will be cited when the Reaffirmation of Membership forms are mailed out at the end of the year. Everyone is encouraged to be evaluating their circumstances for an appropriate response. Mr. Kimball Williams was mentioned as having expressed interest in becoming a member of the committee. **A.I. Mr. Drozd agreed to followup with a contact to Mr. Williams to confirm his interest and to suggest that he formally apply if he wishes.** Mr. Heirman asked that **A.I. each SDCom member review the Record for this Symposium to identify potential candidates for membership on the Standards Development Committee.** Mr. Berger and Mr. Bronaugh agreed to coordinate the procedure for recruiting new members.

7. Action Items from the Meeting

Denny

1. Mr. Traver: assure that digital emissions are appropriately addressed in the revised Std-187.
2. Mr. Heirman: provide suggested wording to Mr. Traver such that Std-187 applies outside US as well as inside.
3. Secretary: Confirm completion dates for P299
4. Msrs. Bronaugh, Heirman, Joffe and Kraemer: prepare a “kernel” on Uncertainty for use by WGs in their standards
5. Mr. Phipps: submit new P1560 PAR to reflect consensus word change in title to be in line with any revised wording in the scope of the standard.
6. Mr. Kraemer: request an editable Word copy of Std-1309 from the IEEE Standards Office.
7. Mr. Kraemer: prepare a narrative of this standard revision process. The SDCOM Secretary will circulate the narrative to the SDCOM members for comment and approval. Once approved, the writeup will be posted on the web site under “Guidance for WGs”.
8. Mr. Berger: contact Art Wall and Mr. Hurst of the FCC to define FCC’s position on Std-139.
9. Msrs. Denny, Joffe, and Heirman: prepare an announcement on proposed action on Std-139 for EMCS Newsletter. (Related) Mr. Bronaugh asked to prepare an article on Std-139 for the February issue of the Newsletter.
10. Secretary: contact Werner Schaefer to see if he would be willing/able to lead a working group to evaluate Std-376 for revision/update. Secretary also to contact IEEE SA to see how many times over the past two years that the standard has been ordered.
11. Dr. Perini: provide recommendations to SDCOM by 1 January 2003 for Std-1128 reaffirmation/revision.
12. Mr. Moogilan: recommend course of action to revise/reaffirm Std-1140 by the March meeting of the SDCOM.
13. Mr. Heirman: prepare an article for the Newsletter on qualifications and the steps necessary to become a member of a balloting group on a particular standard.
14. Mr. Drozd: contact Kimball Williams to encourage him to submit his application to join the SDCOM.

15. Secretary: On the SETCom web page, establish links between the standards articles and the Newsletter web pages containing the articles.

16. All: review the Minneapolis Symposium Record to identify potential candidates for SDCCom membership.

8. Upcoming Meeting Schedule

Sao Paulo, Brazil (November 23, 2002); Honolulu, Hawaii (March 13, 2003)
Instanbul, Turkey (May 11 – 16, 2003); Boston MA (August 18 & 20, 2003).

9. Adjournment:

Attachment 1

EMC-S WORKING GROUP REPORT

W/G PAR # 299

Date: 19 August, 2002

W/G Title: Standard Method for Measuring the Effectiveness of Electromagnetic Shielding Enclosures

Last Meetings: 18 August, 2002

Agenda of last meeting: Attached

Minutes from last meeting: Draft version attached

Summary of last meeting:

A meeting was held on 18 August, and eight (8) attendees participated. The primary topic of discussion was Measurement Uncertainty. The chief issues were identified as:

- Hardware errors
- Human presence issues
- Measurement repeatability
- Angle of incidence errors (for frequencies greater than 3 to 5 times the fundamental resonance of the chamber)
- Limiting critical issues so as not to delay document development and the required ballot

Next scheduled meeting: 23 Aug., 2002, Minneapolis, MN

Agenda: Attached

Planned activity at next meeting: It is important to continue the discussion on measurement uncertainty. It is equally important to line up chairs for the anticipated three (3) new parts. Thus, the time will be split on these issues and planning for the next few teleconference meetings arranged.

Respectfully Submitted by:

Dale G. Svetanoff
Chair

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AGENDA

P299 WORKING GROUP

Meeting of August 18, 2002

1. Call to order and self-introductions
2. Review of 2001 meetings
3. The tasks immediately at hand
4. Chairs for sub-groups
5. New Chair for main group
6. Adjournment until Friday, August 23rd

Note: There will be an intermission break in this meeting for dinner.
Informal discussions can continue during the break.

Attachment 2
IEEE Std 1309 Revision
Working Group Status Report – August 21, 2002

Activities Summary

- *Newsletter article in EMC-s Newsletter*
- *PAR Approved on March 21, 2002*
 - Revision of Std 1309 to include new field probes and sensors that fall within the original scope of Std 1309 and provide minor clarifications on technical points that have been found difficult to interpret or understand
- *Kick-off meeting held March 19, 2002*
 - 10 attendees
 - Five worked on current Std 1309
 - Five new people
 - Two others who could not attend want to participate

Kick-off Meeting Summary

- *Agenda / Items Covered*
 - Introductions
 - Std 1309 background
 - Overview of IEEE Standard Development Process
 - Working Group membership
 - Selected Vice-Chair (Ed Bronaugh) and Secretary/editor (Dennis Camell)
 - Ground rules and working group procedures
 - Schedule
 - Brief technical discussions on Std 1309
- *Technical Inputs / Areas to Revise*
 - New probe / sensor types
 - Areas that need correction
 - Measurement uncertainty section
 - Areas that need clarification / additional information
 - New Procedures
 - New ways of specifying a calibration
- *Schedule*
 - Aug 19, 2002 – Kick-off meeting
 - Dec 15, 2002 – Detailed comments and text to Sec. & Chair
 - Feb (18-20), 2003 – Zurich meeting ?????(if Vice-chair can attend)
 - May 15, 2003 – Draft with revisions sent out to WG
 - Aug xx, 2003 – WG meeting to vote on revisions & resolve technical issues
 - Oct 15, 2003 – Final WG draft sent to WG members for approval
 - Nov 15, 2003 – WG draft sent to Sponsor
 - Jan 15, 2004 – Sponsor ballot
- *WG Communication Process*
 - Meeting methods
 - Telecom bridge
 - Net meeting w/phone
 - IEEE EMC Standards Webpage pass group area (Need help in setting this up)
 - Area to post comments and working group information for the 1309 working group