

SDCom
Meeting Minutes
Wyndham Buttes
Tempe, AZ
February 14, 2002
8 – 12 a.m.

- 1 Call to Order Berger
- 2 Recording of Attendance and Introductions Berger

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

Visitors: Dan Benigni, Candidate for Chairman-elect of the IEEE Standards Association; Dr. Takeo Yoshini, Mark Montrose, Richard T. Ford, and Henry Benitez, EMCS Board of Directors.

- 3 Additions and Approval of the Agenda Berger

Mr. Berger indicated he wished to make an announcement about being asked by Compliance Magazine for permission to publish article on hearing aid article that appeared in the Spring 2001 issue of the EMCS Newsletter. An agenda item on mutual interference and band crowding was added. With these additions to the agenda, its adoption was moved by Mr. Joffe and seconded by Mr. Heirman. The agenda was adopted by voice vote.

- 4 Review and approval of the Minutes of the Previous Meeting Denny

The minutes of the November 12, 2001 meeting in La Jolla, CA were distributed earlier to the SDCom via electronic mail. The Secretary asked if there were any corrections or additions to the minutes. There were none so a move to approve the minutes as distributed was made by Mr. Heirman with Mr. Drozd seconding. The minutes of the November 2001 meeting were adopted. The approved minutes will be posted on the web site.

- 5 Mutual interference and interoperability/band crowding study

Mr. Wally Pilat, Invensys, has indicated that interference has been reported between spread spectrum systems, particularly those using low chip rates. Considerable discussion arose over whether the issue was a (a) heretofore unobserved interference phenomenon, (2) a lack of awareness of previous military efforts to combat this problem, or (3) the absence of an adequate or appropriate non-military standard to measure and limit emissions or to control vulnerabilities of spread spectrum receptors. Mr. Denny moved that Mr. Pilot be asked to form a study group to identify and quantify the

interoperability issues and to make recommendations as to a proper course of action for Standards Development Committee.

6 Status of Standards and PARs

Denny

1. Std-139 Recommended Practice for the Measurement of RF Emission from ISM Equipment on User's Premises. This standard is due for action in 2003. The Committee agreed that action needs to be taken in 2002 to review the standard to ascertain its level of use, the continued applicability of the technology, and any need for revision. **A.I. The Secretary will identify and contact the previous chair of the Working Group to see if this person is still available and interested in leading an effort to evaluate the standard and make recommendations as to any needed revisions.** The upcoming Annual Symposium in Minneapolis in August was suggested as an appropriate time for a formal convening of a task force to evaluate this standard.
2. Std-140 Recommended Practice for the Minimization of Interference from RF Heating Equipment. This standard has been withdrawn and an announcement to this effect will appear in the Spring Issue of the EMC Newsletter. Though no longer an approved IEEE standard, interested users will still be able to obtain photocopies of the standard from the IEEE Standards Office for a nominal fee.
3. Std-187 Open Field Method of Measurement of Spurious Radiation from FM and TV Receivers. Mr. Traver is chairing the Working Group to update and revise the standard. Reports from this Working Group indicate that progress to this end is being made. A detailed report on this activity appears in the August 2001 Minutes.
4. Std-213 Measuring Conducted Emissions from TV and FM Receivers (ANSI Recognized). At the end of the current approval period of this standard in 2003, the standard will be retired. Its requirements will be incorporated into the revised Std-187.
5. Std-299 Measuring the Effectiveness of Shielding Enclosures. Mr. Dale Svetanoff is chairing the effort to revise this standard. Communications from the chair indicates that company constraints have kept him from making the progress that he desires. This standard is a vital document to both military and commercial users. Mr. Heirman agreed to contact the chair to see what assistance is needed and how the Standards Development Committee can help. **A.I. Mr. Heirman to contact Mr. Svetanoff.**
6. Std-376 Measurement of Impulse Strength and Impulse Bandwidth (ANSI Recognized). Scheduled for reaffirmation or revision at the end of 2003. **A.I. Form Working Group to review the standard and make recommendations to the SDCom by December 2002 as to recommended course of action.**
7. Std-377 Recommended Practice for the Measurement of Spurious Emissions from Land-Mobile Communication Transmitters (ANSI Recognized). At the previous meeting in November 2001, the decision was made to not withdraw this standard. Mr. Heirman indicated that the Society of Automotive Engineers (SAE) would be meeting in Detroit in March. At that meeting, Mr. Heirman will review this

- standard with Mr. Poul Andersen to see if he would be interested in leading a Working Group to revise or reaffirm this standard.
8. Std-473 Recommended Practice for an Electromagnetic Site Survey (ANSI Recognized). Mr. Joffe is leading the Working Group to revise this standard to reflect current needs. The Working Group is established, an outline has been prepared, and a web site established for fostering communications among the working group members. With a few exceptions, authors for the elements of the document have been established. Mr. Joffe is in the process of identifying persons to undertake the responsibility of preparing the remaining sections of the outline.
 9. Std-475 Measurement of Field Disturbance Sensors (rf Intrusion Alarms) (ANSI Recognized). Revised standard approved through December 31, 2005. ANSI Recognition of the revised standard granted.
 10. Std-1128 Measurement of RF Absorbing Materials. Need to recruit a Working Group Chair to review and make recommendations for the revision or reaffirmation of this standard as appropriate prior to its expiration on December 31, 2003. **A.I. Secretary to contact Dr. Jose Perini to ask him to review and make recommendations on this standard.**
 11. Std-1140 Measurement of E&H Fields from VDTs (video display terminals). **A.I. Secretary to contact the previous Working Group Chair, Mr. Dheena Moongilan, to request a review and recommendation on the revision/reaffirmation of this standard.**
 12. Std-1302 Guide for the Characterization of EMI Gaskets. Prof. Johann Catrysee is chairing the working group to update this standard.
 13. Std-1309 Calibration of Electromagnetic Field Sensors and Field Probes, except Antennas, from 9 kHz to 40 GHz. Mr. John Kraemer is chairing the working group to update/revise this standard.
 14. P-1530 Development of a Recommended Practice for the Design and Construction of Calibration Artifacts for Cable and Connector Shielding Test Fixtures for Frequencies from 1 Hz to 40 GHz. After two extensions of the termination date of this PAR, the committee decided that another extension was inappropriate in light of the lack of closure on this effort. Mr. Berger reviewed the effort with Dr. Hoeft, the Working Group chair, and it was agreed that an appropriate course of action was to let the PAR expire and continue the development effort as a Study project under the sponsorship of Technical Committee 4. **A.I. Secretary to contact the TC-4 chair, Mr. Robert Scully, to affirm his concurrence and the support of TC-4 in the completion of this effort.**
 15. P-1560 Development of Standard Methods of Measurement of Radio Frequency Interference Filter Suppression Capability in the Range of 100 Hz to 40 GHz. Mr. Kermit Phipps, Working Group Chair. This effort appears to be on schedule. A detailed report is included in the August 2001 minutes.
 16. P-1597 Development of a Standard for Validation of CEM Computer Modeling and Simulation. Mr. Andy Drozd, Working Group Chair. Mr. Drozd announced plans to hold a Working Group meeting in the near future in Monterey, CA, Albuquerque, NM, or in Boston, MA. He indicated that he had received several

responses to EMC Newsletter article on this PAR. He plans to separate the Working Group into two subgroups to address the two parts of the standard

7 Proposed Voting Machine Standard

Sweeney

Mr. Sweeney submitted recommended susceptibility levels to the Federal Election Commission EMI Committee. Considerable discussion ensued as to the most appropriate contact and air discharge ESD voltages and for the radiated field exposure levels. It was noted that the field levels generated by cell phones at distances that can easily be experienced can be significantly greater than the 3 V/m commonly specified for consumer equipment. Mr. Heirman moved that we recommend 15 KV IEC limit for now. The motion was seconded by Mr. Denny. The motion passed though there were two negative votes. Further, we should recommend a 25 KV air discharge limit to the IEEE P-1583 Working Group meeting soon in Kansas City.

8 Coordination Report

Sweeney

Mr. Sweeney contacted Dr. Diethard Moehr, Secretary of IEC TC-77. A set of slide notes was distributed by Mr. Sweeney which describes the various efforts underway under TC-77. **A.I. Mr. Joffe and Mr. Sweeney were asked to identify other societies and organizations developing EMC-related standards. Mr. Heirman is to provide possible contacts in other IEEE societies.**

9 SDCom Administration

Berger/Denny

9.1 WG Support Policy

All

Mr. Berger asked Mr. Butler, past President of the EMC Board of Directors, about the policy of the Board on the financial support of working groups. Mr. Butler replied that it was at the discretion of SDCom. Mr. Denny recommended that the SDCom formulate a policy regarding travel and other support of Working Groups and adopt into the Policy and Procedures as appropriate. Then individual requests will be approved compliant with this policy. **AI: Mr. Drozd to draft proposed amendments to P&P for consideration at next meeting.**

9.2 Committee Recruitment

All

Concern was voiced over the low attendance of committee members at this meeting. It was also noted that some members were only attending one meeting per year. Mr. Sweeney voiced the opinion that he felt that the open dialogue that occurs between the attendees during the meetings was a vital aspect of the Committees' function and that those members not participating in these discussions were not being able to fully contribute to and benefit from being a member. Mr. Sweeney moved that the minimum participation for full membership in the SDCom be increased to two meetings per year. The motion was seconded by Mr. Heirman. No vote on the motion was taken and the motion was effectively tabled.

9.3 Review of IEEE Press CD.

Denny/Berger

The IEEE Standards Office distributed an EMC Tutorial CD identified as a proposed IEEE Press project. An extended discussion indicated that the material on the CD was restricted to a subset of the EMC discipline and as such could not be considered to be a tutorial on electromagnetic compatibility. It was felt that the CD

suggested too much of an appearance of a particular company's endorsement. **AI Secretary prepare an initial response for Longman reflecting the perspective of SDCOM.** (Internal note: route to Heirman, Drozd, Joffe, Sweeney for comments prior to submitting reply to Longman.

10 Action Items from Previous Meeting

Denny

1. Secretary to submit notice to the EMCS Newsletter that IEEE-Std-140 will be retired. (Completed)
2. Mr. Butler will be asked to serve as an "angel" to P1530. (Mr. Butler reports that he is unable to do this. – Completed)
3. Dr. Hoeft will be invited to attend the February 14 meeting to report on the plans for completion of proposed standard 1530. (Completed. See comments above.)

11 Next Meeting

The next meeting will be in Boston, MA on May 30.

12 Adjournment:

Berger

The meeting adjourned at 12:00 noon.