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October 17, 1991

MINUTES OF THE IEEE EMCS STANDARDS COMMITTEE

AUGUST 17, 1991
8:00 to 10:00 A.M.
Hyatt Cherry Hill Hotel
Cherry Hill, N.J.

MEMBERS PRESENT

Don Heirman, Chairman	Ed Bronaugh
Stephen Berger	Dave Traver
Risaburo Sato	Gene Cory
Dan Hoolihan	Hugh Denny
Jim Parker	Ralph Showers
Dave Staggs	Joe Butler

MEMBERS ABSENT

Leonard Thomas, Sr.	Gene Knowles
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OTHERS PRESENT

Mary Zwiebel (IEEE)	Warren Kesselman
Motohisa Kanda	Ralph Justus
Yasuo Akao	James Klouda
Naoki Amano	Sue Vogel (IEEE)
Donald Kerns (P475)	Paul Cook
H. Echigo	E. Krog-Jensen
Dheena Moongilan (P1140)	Anatoly Tsaliovich
(P1128)	

ADDITIONAL MINUTES DISTRIBUTION

George Kunkel (P509)	Dheena Moongilan (P1140)
Bob Egan (P1190)	Anatoly Tsaliovich
(P1128)	
Sue Vogel (IEEE)	Terry deCourcelle (IEEE)

MINUTES

- 1.0 Call to Order - The chairman opened the meeting at 8:00 A.M. and welcomed the attenders to the meeting. (See attachment A - Agenda, attachment B - Board Report)
- 1.0.1 Additions to Agenda - The Chair added the following items to the agenda:
- 6.4 Corrections to Quarterly Report
 - 6.5 Operation of Standards Working Groups
 - 6.6 C95.1 Ballot
 - 6.7 Copyright discussion
- 1.1 Acceptance of Nominees for Balloting Membership - The Chair asked for a motion regarding the nomination of Dave Staggs and Joe Butler for membership on the EMCS Standards Committee. A motion was made and seconded to approve the nominations. The favorable vote was unanimous.
- 1.2 Status of Fabina Nomination - The Sec reported that no response had been received to date regarding his letter to R. Fabina asking about his desire to accept nomination to the EMCS Standards Committee.
- [Sec note: Subsequently Mr. Fabina wrote declining the nomination (See attachment C).]
- 2.0 Review of Minutes of the Last Meeting - The minutes of the May 17, 1991 meeting were reviewed.
- The following errors were noted:
- 3.5 (Pg. 4) - The last paragraph is an action item for the Sec to send notices that the P1140 ad hoc working group has been disbanded with thanks for their efforts.
 - 3.5 (Pg. 5) - "as" should be "was".
- With these changes the minutes of the February 8, 1991 meeting were approved.
- 3.0 Review of Standards Activities
- 3.0.1 STD 299 - The Chair announced that STD 299 had been published. S. Vogel passed a copy around for the committee to
- A.I. inspect. The Chair asked that the Sec send a copy of the published standard to Warren Kesselman and offer the societies suggestion that it would be a suitable replacement for MIL STD 485.

[Sec note: After the meeting the Sec meet with Mr. Kesselman and discussed replacing MIL STD 485 with STD 299. Mr. Kesselman responded favorably but cautioned that such action would have to go through the normal military approval process, which would take some time.]

The Sec reported that G. Knowles had prepared a PAR to reopen the W/G and begin work on the next update to STD 299 (See attachment D - W/G report & proposed PAR). The chair asked for a volunteer to make copies of the PAR for the committee. He then deferred further discussion until later in the meeting.

Later in the meeting discussion was resumed on the proposed PAR. E. Bronaugh noted that "ANCI" should be "ANSI ASC C63".

He also suggested that 20 Hz be the starting frequency to cover the sub-audio. The present document says 14 kHz, extendable down to 50 Hz. R. Showers noted that the PAR does not really say how the current document will be updated. He also felt that paragraph 7 was not appropriate. The high frequency does not match the current document. It states 40

- A.I. GHz and the current document is extendable to 100 GHz. The Chair said he would discuss these issues which G. Knowles.
- E. Bronaugh noted that Fig. 6 in the current document is outdated and difficult to interpret for people who are not familiar with
- A.I. the old nomenclature. The Chair asked that the Sec mail the new PAR, when available, to the committee for review. H. Denny clarified the mid-October date when new PAR's would have to be at the Standards Office.

- 3.2.2 STD 473 - The Sec reported that the reaffirmation vote for STD 473 had been completed and that the proposed reaffirmation had been submitted to REVCOM.

[Sec note: After the meeting the Sec was notified by the Standards Office that one negative vote to reaffirmation had been received on both STD 377 and 473 (See attachment F). However, at its September meeting REVCOM approved both for reaffirmation (See attachment F).]

- 3.1 Standard 475 - D. Kerns reported that he had reviewed the areas which need to be updated (See attachment G - Summary of proposed revisions). The Chair asked if the W/G required any help from the EMCS Standards Committee at this point? D. Kerns responded that at this point there were no representatives from producers involved in the W/G. The Chair responded that there was a security devices society and that
- A.I. S. Vogel could help place him in contact with them. The Chair asked that the contact be formally made through a

letter with copies to the Chair, Sec and S. Vogel, at the Standards Office.

- 3.2 Standard P482 - J. Parker reviewed recent activity and actions taken by the W/G at the 1991 symposium meeting (See attachment H - W/G Report & 8-12-91 meeting agenda). He reported that A. Tsaliovich had volunteered to serve as the new W/G chair. A. Tsaliovich & J. Parker would jointly write and submit a new PAR for the project. The next W/G meeting is scheduled for late October at NIST. The Chair noted that A. Tsaliovich was currently serving as W/G chair of another W/G. He suggested that due to the work involved at a minimum an active vice-Chair would be needed to assist in P482.

The Chair asked about the anticipated time to completion for the project. J. Parker responded that 2 to 3 years was his best judgement. The Chair requested that he use a realistic estimate on the PAR but not to use an estimate of over 3 years.

The Chair then asked that all new PAR's be circulated to the EMCS Standards Committee before submittal. After the committee has had 3 weeks to review them the PAR's may be submitted, assuming no negative comments have been received by the submitter. He then asked for further comments on this subject. It was suggested that positive confirmation of the receipt of proposed PAR's by the various committee members be secured. This addition was noted.

- A.I. E. Bronaugh noted that it might be wise to restrict a W/G chair to one W/G at a time. The Chair asked that G. Knowles develop such a policy for consideration.

- 3.3 Standard P509 - The Sec presented the W/G chair's report (See attachment I). J. Parker reported that the W/G chair is not in agreement with the EMCS Standard Committee's guidance, as reflected in the last several sets of minutes (See attachment J - Letter from W/G chair).

The Chair asked H. Denny for his assessment. He responded that 26 people attended a meeting the previous Tuesday. The consensus was the P509 should be either deleted or revised to change the scope of the project. This group felt that the effort should consider all factors involved in gasket evaluation and not just transfer impedance. The Chair asked for a brief review of who participated in this meeting. H. Denny said that the group was an ad hoc group including a number of gasket manufacturers, members of SAE ARP 1705 W/G and those who attended the meeting at last years symposium on this topic. The current W/G chair was in attendance and was invited to give a presentation.

R. Showers asked what was meant by "factors needed to evaluate gasketing"? H. Denny reviewed the factors which had been discussed. A discussion followed as to what the critical factors were, R. Showers, M. Kanda, J. Parker and H. Denny participating.

The Chair recapped saying that it appeared as if P509 should be withdrawn and a new PAR prepared when the correct direction has been agreed upon. H. Denny moved that P509 be canceled. The motion was seconded and discussion followed.

During the discussion of the motion the following points were made. R. Showers stated that he would like to review the current and old PAR before a decision was made. There was considerable discussion of the need for this project at all a.k.a. the SAE standard. The Chair noted that this PAR is now 12 years old. The Chair called the motion and it passed

- A.I. unanimously. H. Denny is to provide a PAR for withdrawal.

- 3.4 Standard P1128 - The W/G chair, A. Tsaliovich, reported on the meeting held at the symposium. Approximately 40 people attended. However progress of the project had been slowed because several key people had to drop out for various reasons. A new secretary, Bob Hoffman had been appointed. The main effort at the meeting was to review draft 2. Several methods have been dropped due to incomplete documentation of them. Draft 3 will be circulated before the 1992 symposium.
- A.I. The Chair asked that the A. Tsaliovich prepare a PAR to attach to the minutes for review by the committee.

- A.I. The Chair then asked the Sec to bring a copy of all PAR's for review to the next meeting.

- 3.5 Standard P1140 - The Chair introduced the W/G chair. The Chair stated that it was extremely important that any use of the draft material must be approved by the W/G chair. This is because partial release of the information tend to freeze
- A.I. project before it is technically ready. The Chair asked that the Standards Office send a letter to this effect to all involved.

A discussion of the process followed with special regard to the coordination with the Computer Society.

The W/G chair began his report (See attachment K - Comments on Draft 6). Discussion of individual points followed:

- It was agreed that the test equipment and probes specified must not be such that they specify a

single manufacturer.

- Traceability to NIST will be added.
- Appendix D, listing achievable values, will be retained as it has been specifically requested by CBEMA and FDA. The reasons for the negative comments, that this section would represent a defacto standard received careful discussion. The Chair expressed the belief that the project could not be successfully completed without this section because of its importance to several groups. The issue was left to the W/G chair, Sec and Chair to resolve in such a way that the appendix could be kept and also be protected from becoming a defacto standard.

A.I. The Chair asked the W/G chair to develop a review of the comments with details of how each was resolved. Where a comment is not accepted the arguments, reasons and countervailing opinions must be carefully recorded.

3.6 Standard P1190 - E. Bronaugh reviewed the discussion which had been held at the symposium. The Sec was asked to attach the report when received to the minutes.

4.0 New Business

4.1 New Standards

4.1.1 Calibration of Isotropic Probes - E. Bronaugh reported that

A.I. he thought he had located an individual to chair this W/G. A PAR is needed as soon as the W/G chair is in place.

4.1.2 PWB Layout - Discussion was delayed due to the lateness of the hour.

5.0 Old Business

5.1 Review of MUG, mailing addresses, ballots, attendance data -

A.I. The Chair requested that these items be attached to the minutes and that corrections be sent to the Sec.

5.2 Action Items from Previous meetings - A review of the open action items followed.

Action Items from May 19, 1990

6.3 - drop, put in archival list of project ideas.

Action Items from August 20, 1990

1.2 - move item to this meetings action items.

- 3.4 - move item to this meetings action items.
- 3.4 - move item to this meetings action items.

Action Items from November 9, 1990

- 3.2 - There was a discussion with S. Vogel and the item was closed.

Action Items from February 8, 1991

- 3.1 - Item dropped.

Action Items from May 17, 1991

- 1.1 - Completed
- 1.1 - Completed
- 3.0 - Open
- 3.2 - Completed
- 3.3 - Completed
- 3.4 - Completed
- 3.7 - Change completion date to Oct. 1991
- 5.1 - Open
- 6.2 - Completed
- 6.6 - Completed

- 5.3 Criterion for Committee Membership - G. Knowles submittal was passed out and discussed (See attachment L).
- 5.4 Standards Awards Recap - G. Cory reported on the Standards Awards. A letter of thanks from Prof. Sato was read to the committee. It was suggested that an article be placed in the Standards Bearer. S. Vogel thought that there had been an article. It was decided to place an article in the EMC Newsletter.
- A.I. The committee was asked to forward nominations for next year to G. Cory.
- 5.5 Standards Board Nominees - E. Bronaugh reported that nobody had volunteered who had adequate support to participate at this level and so no nominations had been sent.
- 6.0 New Business
- 6.1 Standards Activities for 1991 EMC Symposium - The Chair reported that many meetings were being held at the symposium.
- A.I. He requested that all W/G chair's submit minutes to the Sec for inclusion in the minutes. Thanks were expressed for the effort on the part of many individuals in regard to furthering the various standards efforts.

6.2 Liaison with ANSI ASC C63 S/C 1 - It was agreed that C63 should wait until P1140 is complete and then look at adopting it in S/C 1.

- 6.3 Compendium of EMC Standards - E. Bronaugh presented a list of standards which relate to EMC (See attachment M). There are approximately 20 EMC standards. He also had prepared a second list which contained standards influenced by the EMCS. Both lists had been sent to S. Vogel, who reported that a compendium was under discussion.
- The Chair introduced Mary Zwiebel of the Standards Office. She introduced a discussion of having a seminar on C63.4.
- 6.4 Corrections to Quarterly Report - This items was dropped for lack of time (See attachment N).
- 6.5 Operation of Standards Working Groups - A discussion was held on the material which had been mailed on how to conduct a W/G. S. Vogel said that a video was available on how the standards process works. M. Zwiebel said that training for W/G chair's was being planned.
- 6.6 C95.1 Ballot - The Chair reported that a pro-forma ballot had been held and that he had responded for the committee in order to meet the deadline (See attachment O).
- 6.7 Copyright discussion - S. Vogel read the new language developed by the IEEE legal counsel. A letter will be sent to the Sec for inclusion in the minutes. The Sec asked if this statement should appear on every page of a draft. S. Vogel responded affirmatively.
- 7.0 Next Meeting - The next meeting of this committee is Friday, November 15, 1991 from 8:00 AM to 10:00 AM at the Anaheim Mariott Hotel.
- 8.0 Adjournment - The meeting adjourned at 9:59

Respectfully Submitted,

H. Stephen Berger
Secretary,
EMC Society Standards Committee

ADDITIONAL ATTACHMENTS:

Attachment P - Address List
Attachment Q - MUG Factor List

ACTION ITEMS

ARISING AT THE

AUGUST 17, 1991 EMCS STANDARDS COMMITTEE MEETING

- 3.0 W/G Chairmen Submit report for minutes. Open
- 3.01 Chair Discuss need for revision of PAR to reflect discussion. October 1991
- 3.01 Knowles Submit new PAR for 299. October 1991
- 3.01 Sec Mail new PAR to committee for rev. October 1991
- 3.1 Kerns Contact Security Devices Society. November 1991
- 3.2 Knowles Develop policy for consideration on single chairman handling more than one W/G. November 1991
- 3.3 Denny Develop withdrawal PAR for P509 January 1991
- 3.4 Tsaliovich Submit P1128 PAR for minutes October 1991
- 3.4 Sec Bring copies of all PAR's to next meeting. November 1991
- 3.5 Vogel Send letter to all involved in P1140 stating importance of not releasing draft material publicly. September 1991
- 3.5 Moongilan Develop written response to all comments detailing nature of resolution. October 1991
- 4.1.1 Bronaugh Recruit W/G chair for Iso. Probe Cal. project and have PAR written. October 1991
- 5.1 Sec Attach MUG, Address List, etc. to minutes. October 1991
- 5.2 Chair/Sec Develop Stds. involvement package. End of 1991
- 5.2 Chair. Write a description of the correct working relationship between the TC's, W/G's and Std. Com. End of 1991

ACTION ITEMS

ARISING AT THE

AUGUST 17, 1991 EMCS STANDARDS COMMITTEE MEETING

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| 5.2 | W/G
Chairmen | Consider preparing a Newsletter article on W/G project and how others can get involved. | Due Sept. 1991 |
| 5.4 | Cory | Submit article to Newsletter on awards recipients. | October 1991 |
| 5.4 | Committee | Submit further awards nominations to G. Cory. | November 1991 |