

H. Stephen Berger
ROLM System Corp.
2420 Ridgpoint Dr.
MS - A-112
Austin, Tx. 78754
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MINUTES OF THE IEEE EMCS STANDARDS COMMITTEE

NOVEMBER 9, 1990
8:00 TO 10:00 A.M.
Mariott Suites Hotel
Scottsdale, Az.

MEMBERS PRESENT

Don Heirman, Chairman
Ed Bronaugh
Hugh Denny

Stephen Berger, Secretary
Dan Hoolihan

MEMBERS ABSENT

Leonard Thomas, Sr.
Dave Traver
Gene Cory
Jim Parker

Ralph Showers
Gene Knowles
Risaburo Sato

OTHERS PRESENT

Warren Kesselman
George Kunkel
Herb Mertel

David Staggs
Joe Butler
Walt McKerchar

ADDITIONAL MINUTES DISTRIBUTION

W/G CHAIRMEN: (Not voting members of the committee.)

George Kunkel (P509)
Bob Egan (P1190)
Anatoly Tsaliovich (P1128)

Don Kerns (P475)
John Osburn (P626)
Dheena Moongilan (P1140)

OTHERS:

Poul Anderson (VTS liaison)
Terry deCourcelle (Sec., NESCOM)

Ed Bronaugh (Pres. EMCS)
Janet O'Neil (Sec. EMCS)

MINUTES

1.0 The chairman opened the meeting at 8:00 A.M. and welcomed the attenders (See attachment A - agenda & attachment B - Board of Directors Report).

1.1 The chair. asked for nominations for the EMC society

A.I. standards committee. He suggested that the primary candidates are the chairmen of the various W/G's. However, nominees did not have to be confined to that group.

G. Kunkel asked if the TC chairmen were not automatically members of the std. com. The chair responded that this was not automatic. The balloting membership of the std. com. was maintained separately, in part as a check and balance to assure consensus in IEEE standards.

W. Kesselman suggested D. Coffield but asked if membership in the IEEE was a requirement. The chair responded that to be on the Std. Com. he would need to be an IEEE member. However, active involvement on the various W/G's was available.

1.2 The sec. reported that the reconfirmation for Std. Com. membership had been sent and three had returned the reconfirmation to date. The chair asked who had responded. The Sec. responded that D. Traver, R. Sato and G. Cory had responded. [NOTE: By the end of the meeting reconfirmations were received from the members present, bring the total to 7.]

2.0 The chair. reviewed the need for complete documentation of IEEE standards activities in order to cover liability exposure and proper documentation of material interest and distribution of involvement. The chair. has written letters to all the W/G chairmen (See attachment C) that as a group they improve the "paper trail". Specifically the W/G membership, meeting minutes, details of all votes and regular reports to the Std. Com. are needed. The chair. further noted that MUG factor distribution had been a problem with 187 and this was expected to be of increasing concern in the future. G. Kunkel asked for a guide to proper MUG distribution. The chair. responded that a complete guide was available in the Standards Manual, he then reviewed the sense of the guidance.

The minutes of the Aug. 20, 1990, meeting were reviewed. The following corrections were made:

- Para. 3.4 - change "out committee" to "our committee"
- Para. 6.9 - change "sales volumes" to "sales volumes"

With these changes the minutes were accepted. The motion was made by Dan Hoolihan and seconded by Ed Bronaugh.

3.0 Review of the standards projects then followed.

3.1 P299

A new PAR is before NESCOM to change the title and upgrade the draft from a Recommended Practice to a Standard. The draft will be before REVCOM at the same time for final approval (Attachment C - W/G Report). The chair. believes that the draft will be approved if other improvements are needed then a new PAR can be submitted and the W/G for 299 can be left intact to upgrade the standard (Attachment D - Related correspondence). However, there is a pressing need for a 1990 version. (See attachment E for result of NESCOM/REVCOM action on all submitted PAR's.)

W. Kesselman reported that D. Coffield had sent editorial comments on the draft and expressed particular concern over the magnetic measurements.

3.2 P475

The chair. reported that the Standards Board was threatening to unilaterally withdraw this standard if it did not receive a response on its renewal (Attachment F - PAR). The current W/G chairman has been unable to actively pursue this project.

The chair. asked if a new chairman was available for this W/G. E. Bronaugh suggested that perhaps the committee should reaffirm this standard and almost all standards at their 5 year review point and then submit a PAR to update them. Other societies do this and thus escape the deadline pressure with the 5 year review date creates. D. Hoolihan and H. Denny concurred with this suggestion. The chair. added his agreement and raised 299 as an example. He asked if we should we now submit a PAR for revision to avoid the last minute scramble at the 5 year point? J. Butler asked if it was not a problem to have a PAR open with no immediate action. The chair. said that several societies are doing this currently because changing technology assures the need to upgrade standards. H. Denny suggested a comment page could be added

A.I. to standards, as MIL-STD's currently do. The chair. will ask W. Eto of the Standard's Office what the current practice is for feedback on standards. (See attachment E for action on PAR).

3.3 P482

The chair. reported that PAR's to withdraw 478 and expand 482 had been submitted to NESCOM. 482 would be the only standard of these two in the future.(See attachment E for action on PAR).

3.4 P509

The chair. opened the report with preliminary comments regarding the sphere of interest covered in this project. He noted that on May 19 the committee had voted to keep the measurement fixture as part of the standard instead of having two different standards, due to the impossibility of defining a measurement without defining the relevant fixturing. On August 20, 1990 the committee voted to put this project on hold and see what was coming from SAE in the area of interest. The chair. passed out copies of the TC-4 minutes from the August 20 meeting in Washington, D.C. (See attachment G) The chair. asked all members present to read over the minutes before he turned to the W/G chairman for his report.

After the committee had reviewed the TC-4 minutes G. Kunkel began his report. He reviewed the history of the effort. He noted that there is a MIL-STD which measures shielding effectiveness. The intent and purpose of the project is to define the measurement of transfer impedance of gaskets. This measurement will include surface impedance and the internal impedance of the gasket. The EMP society uses transfer impedance almost exclusively to analyze the effect of a wave hitting a vehicle. The W/G chairman expressed his belief that transfer impedance is a good approach which should be used. There was a meeting in Denver which focused on the fixture. This is a quality control on the impedance of the gasket and also quantifies the effect of force on the impedance of the gasket. G. Kunkel said then TC-4 cancelled the project. The chair. responded that the project was not cancelled but put on hold. The W/G chairman said that the SAE approach just measured the gasket while his effort was trying to test the salient attributes of a gasket. The chair. asked if the W/G chair. was speaking for a consensus of the W/G? The W/G chair. responded that he was speaking for 1/2 or 3/4 of the W/G. The chair. responded that the committee must have consensus from drafting committees. This was essential to conserve time and energy of all involved. He noted that TC-4 had decided to put the effort on hold and in minutes it appears that the W/G chairman had agreed to this at the TC-4 meeting. The W/G chairman responded that TC-4 has 6 members and 2 definitely feel the effort should be shelved. He feels there is a pre-bias by TC-4. Some feel that the existence of one standard does away with the need for P-509. P. Mandle's SAE effort has a fixture which is claimed to be linear to 1 GHz but the W/G chairman finds it to go non-linear much earlier. The chair. suggested perhaps all that was needed was to improve the frequency response of the SAE document. If 1 document can be developed which can serve the purpose of both organizations then much redundant effort would be saved.

The W/G chairman said the SAE fixture resonates between 100 MHz and 1 GHz but the P509 fixture is stable to 10 GHz. The

chair. said that it is critical that these fixtures must be documented with sufficient construction detail to assure that most people could successfully build them.

The W/G chair. responded that it was critical that this effort continue as today there is no standard for measuring gaskets. The chair. asked for responses to that statement. E. Bronaugh responded that there was an SAE document which dealt with the subject. The chair. solicited further comments from the Std. Committee members. He asked that all members present comment and then opened the floor.

H. Denny said that he felt this had fallen into a technical difference of opinion. What is really important about a gasket has not been well agreed upon in the community. It now appears that there are two sides with pre-determined end results. He feels that we should get a consensus of peers on what the key criterion are and then the right fixture for measuring it should follow. The chair. then reiterated that H. Denny's ad-hoc group is continuing work in the area of P509 but P509 as a std. is on hold.

E. Bronaugh asked what the status of the TC-4 work is? The chair. responded that this is not a standard activity but work sponsored by TC-4.

J. Butler said that he holds dual membership in SAE-AE4 and TC-4 and that he agrees with everything that H. Denny said. He felt that a fresh look at the whole area would be healthy.

The chair. summarized:

- P509 will be kept on hold.
- The Std. Committee will await TC-4's report.
- Additional input from H. Denny's gasket review & evaluation group is being solicited.
- He invited the W/G chair. to recruit a wider membership and expand the MUG distribution of the W/G.

(Attachment H - Related Correspondence)

3.5 P626

The new PAR is on NESCOM's agenda. The chair asked if the sec. had a report. The sec. responded that he had not received one. E. Bronaugh offered that he had brought the report from the W/G chairman. A meeting was planned in conjunction with this meeting but wasn't forthcoming due to lack of people to attend. The chair. requested in the future a written report be submitted.

3.6 P1128

The chair. reviewed the submitted report.

3.7 P1140

The chair. reported that a controversy was developing in regard to this project and gave a brief background. In the Sept. meeting of NESCOM SCC-28 was discussed and P1140 came up because of the VDT concern in the popular press. F. Buckley has written a letter suggesting that 1140 be set aside and the work be put under the computer society microprocessor group. At its meeting in Washington P1140 put the effort on an accelerated 6 month schedule and also extended the

A.I. frequency range to 5 Hz. The chair. was asked by the committee to write a letter stating:

- That the work is well underway.
- The W/G has broad representation from those responsible for such measurements.
- Coordination can adequately cover the concerns of Mr. Buckley.

(Attachment I - PAR
Attachment J - Related Correspondence
Attachment K - W/G Report)

E. Bronaugh and H. Denny offered that the body of knowledge required to develop this effort resided in P1140. The chair. called the motion and it passed unanimously.

3.8 P1190

The chair. reported that this project was expanding because C63 SC 1 had given it several tasks which it was considering.

D. Staggs reported on the meeting held earlier in the week. Much data is being gathered for calibration and proper instillation of LISN's. C63 SC 1 is asking that the frequency range be extended to 9 KHz, that consideration be given to table mounted LISN's and that instillation guidance be given. In summary, it was reported that the meeting was very fruitful (Attachment L - Minutes of W/G Aug. 22, 1990 Meeting).

4.0 New Standards/Standards Coordination

4.1 Ideas for New Standards by the TC's

The chair. reported on his presentation to the TC's asking that they include in their 5 year plans standards development for their respective spheres of interest.

All current standards fall within TC-2 or TC-4.

(Attachment M - Response from TC-3 & TC-5)

5.0 Old Business

5.1 Review of MUG, Mailing Addresses, Etc.

The sec. briefly reviewed the MUG list and address list.

- 5.2 Action Items
There was a brief review of the outstanding action items. See the attached action item lists for items which are still open.
- 6.0 New Business
- 6.1 Standards Week
The chair. reported that a very nice presentation had been given on why we do standards (Attachment N).
- 6.2 Standards Quarterly Report
The sec. was asked to review the quarterly report and notify the office on any errors.
- 6.3 Symposium Report
This years symposium will go from Sunday to Saturday, so that there is a lot of opportunity for meetings. Only 3 parallel sessions are being held to further cut down on conflicts. (Attachment O - Committee Meeting Scheduling Form)
- 6.4 Other New Business
The Chair. opened the floor for other items. Hearing none the meeting was adjourned.
- 7.0 The next meeting will be held in conjunction with the BoD meeting in San Antonio on Friday February 8, 1991.
- 8.0 Adjournment

Respectfully Submitted,

H. Stephen Berger
Secretary
EMC Society Std. Committee

ADDITIONAL ATTACHMENTS:

Attachment P - EMC Related Standards - Sales Data

ACTION ITEMS

ARISING AT THE

MAY 19, 1990 EMCS STANDARDS COMMITTEE MEETING

MIN SEC	RESPONSIBLE PERSON	ACTION ITEM	COMPLETION DATE /COMMENTS
1.2	Members	Submit nominations for Std. Com. members to chair.	
3.0	W/G Chairmen	Submit report for minutes.	
6.3	Carstensen	Respond on TC-1's interest in the EMC drafting symbols project.	

ACTION ITEMS

ARISING AT THE

AUGUST 20, 1990 EMCS STANDARDS COMMITTEE MEETING

MIN SEC	RESPONSIBLE PERSON	ACTION ITEM	COMPLETION DATE /COMMENTS
1.2	Chair/Sec	Develop Stds. involvement package.	
3.0	W/G Chairmen	Submit report for minutes.	
3.4	Chair.	Write a description of the correct working relationship between the TC's, W/G's and Std. Com.	
3.4	W/G Chairmen	Consider preparing a Newsletter article on W/G project and how others can get involved.	
3.5	TC-4	Report to chair regarding direction of P509 by 1 qtr. 1991.	
6.8	Cory	Supply chair. with nominees for Std. Medallion award.	
6.9	Chair.	Contact S. Vogel on EMC Std. Compendium	

ACTION ITEMS
ARISING AT THE
NOVEMBER 9, 1990 EMCS STANDARDS COMMITTEE MEETING

MIN SEC	RESPONSIBLE PERSON	ACTION ITEM	COMPLETION DATE /COMMENTS
1.1	Members	Submit nominations for Std. Com. members to chair.	
3.0	W/G Chairmen	Submit report for minutes.	
3.2	ChairWrite	Standards Office inquiring about current process to gain feedback on standards.	
3.7	ChairWrite	NESCOM protesting the CS proposal regarding P1140.	