

CHAIRMAN'S NOTE:

The minutes are 8 pages long. There are several requests of our Std. Committee contained in these few pages. Please take the time to read and respond. Thanks.

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Austin, Tx. 78758  
August 9, 1990

MINUTES OF THE IEEE EMCS STANDARDS COMMITTEE

MAY 19, 1990  
8:00 TO 10:00 A.M.  
Cherry Hill Hyatt Hotel  
Cherry Hill, N.J.

MEMBERS PRESENT

Don Heirman, Chairman  
Ed Bronaugh  
Dan Hoolihan

Stephen Berger, Secretary  
Dave Traver  
Ralph Showers

MEMBERS ABSENT

Leonard Thomas, Sr.  
Risaburo Sato  
Jim Parker

Gene Knowles  
Hugh Denny  
W.E. Cory

OTHERS PRESENT

Sue Vogel

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).

The agenda was amended by the chair, who added two items of new business:

- 6.4 Navy Std. Rev.
- 6.5 ANSI Announcement - C65

- 1.1 The chair. open the discussion of requirements for membership on the standards committee. The following requirements developed from the discussion:

- 1. Technically qualified.
- 2. Willing to make a 2 yr. commitment to membership.
- 3. Has worked on standards previously, preferably as a W/G chairman.
- 4. Nominee's company is willing to support participation.
- 5. Nominee will attempt to recruit a qualified replacement when he leaves the committee.

The sec. was asked to prepare a letter outlining these qualification. (See attachment C)

- 1.2 The chair. asked for recommendations for the committee. Prime candidates for nomination are the current W/G chairmen (See agenda - attachment A - for current list of W/G chairmen).

The chair. asked that the members of the committee send nominations to the sec. for consideration by the chair.

E. Bronaugh commented that it was very likely that departing members would have good suggestions on nominees. The chair. concurred by noted that some would not be diligent in finding a qualified replacement.

- 2.0 The minutes of the February 21, 1990, meeting were reviewed. On page 1, the W/G chairman of P1190 is now R. Egan and not D. Staggs. With this change the minutes were approved.

- 3.0 Review of the standards projects then followed.

- 3.1 P140

The sec. reported that P140 had been submitted to REVCOM. (NOTE: REVCOM subsequently approved P140. The document is currently undergoing final editing by the standards office

before publication. See attachment D)

3.2 P187

The secretary reported that 8 of 14 mail ballots had been received by the standards office. Of those received 6 were positive and 2 were negative. At the time of the meeting one of the negative votes had been resolved. The sec. had not been able to contact the remaining negative vote to discuss his concerns. (NOTE: REVCOM approved P187 contingent on the distribution of the balloting committee being shown to be sufficiently representative of all interest groups. See attachment E - response to the REVCOM request)

Special thanks were expressed to D. Traver, who had the document word processed and turn over to the standards office before final submittal.

3.3 P299

The sec. reported that all but one ballot had been returned on P299. Of those returned there was one negative vote, two abstentions and the remainder were positive. However, a large number of comments were offered.

The committee strongly felt that P299 must continue to be expedited. For this reason it requested that the comments and current draft be sent to the standards office for word processing. It was noted that next REVCOM meeting will be September 27 and 28. In order to be considered at that meeting the draft will need to be coordinated and submitted for the REVCOM agenda by mid-August.

(NOTE: Subsequent to the meeting the comments on the ballot were incorporated by the standards office and mailed to the committee for review. A deadline of July 1 was set for responses. The one negative vote was also resolved. Those responses received were then sent to the standards office for incorporation in the draft. All indications of deletions and additions from previous drafts were also removed. This final version of the draft was sent out for coordination the week of August 6. See attachment F - Coordination Mailing and attachment G - Standards Office request. The sec. also requested that P299 be placed on the REVCOM agenda for Sept. Approval is requested, subject to the successful completion of coordination.)

3.4 475

No communications had been received from the W/G chairman on this project. E. Bronaugh had spoken with the W/G chairman and subsequently received a letter from A. Wall, of the FCC. In summary, the letter stated the continued need for this standard and the need to rework the standard to reflect the

current state of the technology. (See attachment H - A. Wall's letter and attachment H - Standards Office request)

The chair. is requesting from Sue Vogel, of the standards office, sales information on this standard as a means of determining how widely the standards is currently being used.

E. Bronaugh asked that this information be obtained for all the EMCS standards.

### 3.5 P478/482

The chair. had received a new PAR from J. Parker. (See attachment J) Unfortunately it was on the old PAR form and would need to be transferred. 482 was picked as the new number for this project. E. Bronaugh suggested that 478 be used as the new number. The chair. reviewed the changes in the project reflected in the new PAR with the committee.

### 3.6 P509

The discussion about P509 centered around the question of whether this project would also be merged with P478/482. The chair stated that the project will not be merged into a single document but it would be moved to a joint effort. A new PAR and report is included in the minutes. August 20 is the target for submission of a draft of the standard to the committee.

The fixture continues to be a central point of discussion. The W/G thought of separating the fixture construction from the test procedure in order to overcome the controversy on the fixture. The consensus of the std. committee is that the procedure must have the fixture specified to be meaningful. The committee felt that since both a procedure and fixture are needed to conduct a test then both must be finalized before a meaningful document could be produced. The W/G should resolve the issues involved. The chair. requested that the sec. prepare a letter for his signature informing the W/G chairman of this desire of the committee. It was further offered that as TC-4 is sponsoring this projected it should be called upon to help resolve some of these issues.

G. Kunkel's letter to NIST was read. The W/G plans a meeting on August 20, at the symposium.

### 3.7 P626

The W/G report was included in the minutes of the February 21, 1990 meeting. The new title for this project is, "Recommended Practice for Signal Referencing". The chair. noted that the scope should say, from an EMI perspective. It was further noted that some clarification of the end purpose should be included such as to reduce emissions or increase immunity to ESD etc. Among the bodies listed for

coordination the Component Society needs further clarification.

[In a side discussion it was recommended by the chair. that the action items be sent out early with reminders being sent in mid-July. This is particularly crucial for projects due for submission to REVCOM as the deadline for submittal to REVCOM is mid-August, almost at the same time as the next meeting, August 20.]

3.8 P1128

The sec. read the W/G chairman's report for the committee (See attachment K - W/G report and meeting notice) The next W/G meeting will be held on August 20, 1990, at the 1990 Symposium.

E. Bronaugh said that M. Hart had resigned due to business pressures but was requesting that Karush Matlubi replace him. The chair. requested that the committee membership list be updated to reflect this change.

It was noted by the committee that this effort enjoys a widely international participation. The chair. expressed his pleasure at the active participation and good progress of the W/G.

3.9 P1140

The chair. read the W/G chairman's report (See attachment L).

E. Bronaugh said that he would not be able to continue his participation on this W/G, however he would contact the W/G chairman with a suggested replacement.

There was a suggestion that the lower frequency needs to be changed to 30 Hz. The final resolution of the lower frequency limit was left to the W/G.

The discussion turn to recruiting additional participants for the W/G. E. Bronaugh suggested that people in the TEMPEST arena and some aspects of military testing would have a natural interest in this project. The chair. offered to contact D. Ford in this regard. R. Showers offered that IEC TC77, which is a general method of measuring magnetic fields for immunity testing, be included in the draft. The chair. said that CISPR Pub. 16 has a three orthogonal loop method for both susceptibility and emissions testing.

3.10 P1190

R. Egan has been named the new W/G chairman for this project (See attachment M).

4.0 New Standards/Standards Coordination

4.1 Ideas for New Standards by the TC's  
The chair. requested that the sec. send a short letter to the TC chairmen asking them to add to their agendas for the 1990 Symposium their TC's role in standards activities. (See attachment N) Specifically each standard should have a TC as sponsor and the TC's are the natural source for suggestions of new standards projects which are needed. The chair. noted that the ultimate result of advancing the state-of-the-art should be a standard. By incorporating technological advances into standards new knowledge is protected from the danger of fading with individuals, who eventually leave the field for various reasons.

4.2 TC Sponsorship of New Standards  
At this time only two standards projects are really sponsored by TC's. There is a need for more involvement by the TC's in the standards arena.

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 IEEE Std. Office Services  
Sue Vogel reported on the std. office capabilities (See attachment O). The chair. suggested that in the future as standards come up for their 5 year review the W/G chairman can obtain a copy on disk so that updates can work directly from the original. The sec. was asked to send the information presented to the W/G chairmen so that they could make use of the services they required.

Sue Vogel is the key contact for the EMC Society efforts. Theresa Bien is the point of contact for ballots and ballot summaries.

There was a discussion of the emergency standard procedure and its use.

S. Vogel handed out:

1. Standards Medallion nomination form.  
(See attachment P)

2. New standards catalogue.
3. New "Standards Bearer"

The 1990 Standards Week will be held in Pittsburg during September 24-28, 1990.

The chair. commented that collections of standards seem to be getting very popular. He asked if an EMC collection was possible. S. Vogel responded in the affirmative.

- 6.2 EMCS Meetings at Washington Symposium  
The chair. gave a brief review of the W/G meetings scheduled to be held during the symposium.
- 6.3 TC-1 Input on EMC Symbols  
There was no report on this topic.
- 6.4 Navy Std. Review  
S. Vogel reviewed a letter from the Navy. Mil. Handbook 235B and 237A are being updated. The Navy is looking for comments from the EMC Society's members. The deadline for comments is the first week of July.
- 6.5 ANSI Announcement of C65  
The chair. announced that 139 is now available from ANSI (See attachment Q).
- 7.0 The next meeting will be held in conjunction with the BoD meeting in Phoenix.
- 9.0 Additional attachments
- 9.1 EMC Comments on P539 (Attachment R).
- 9.2 Current Address List (Attachment S).
- 9.3 Current EMCS Std. Committee Projects List (Attachment T).

Respectfully Submitted,

H. Stephen Berger  
Secretary  
EMC Society Std. Committee

ACTION ITEMS  
 ARISING AT THE  
 NOVEMBER 29, 1989 EMCS STANDARDS COMMITTEE MEETING

MIN SEC	RESPONSIBLE PERSON	ACTION ITEM	COMPLETION DATE /COMMENTS
3.4	D. Kerns	Ballot P475 for reaffirmation or submit new PAR.	
3.6	J. Parker	New PAR's needed for P478 & P509.	

EMC Symbols project. FEBRUARY 21, 1990 EMCS  
 STANDARDS COMMITTEE MEETING

MIN SEC	RESPONSIBLE PERSON	ACTION ITEM	COMPLETION DATE /COMMENTS
3.4	D. Kerns	New PAR for P475 needed.	
3.5	J. Parker	TC-4 to give guidance reflected in a new PAR for P478/482	
3.6	J. Parker	New PAR for P509	
3.9	D. Moongilan	New PAR for P1140	

MAY 19, 1990 EMCS STANDARDS COMMITTEE MEETING

MIN SEC	RESPONSIBLE PERSON	ACTION ITEM	COMPLETION DATE /COMMENTS
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3.0 W/G Submit report for minutes.  
Chairmen