

**Low Voltage Switchgear Devices (LVSD) Subcommittee
Minutes of the Spring, 2003 Meeting
Tradewinds Sirata Beach Resort & Conference Center
St. Pete Beach, FL
May 7, 2003**

The Low Voltage Switchgear Devices Subcommittee met on May 7, 2003, with 12 members and 7 guests present. There were 7 excused absences.

Members:	D. J. Edwards S. S. Gohil A. Livshitz	D. Mazumdar P. J. Notarian T. W. Olsen	R. J. Puckett M. D. Sigmon	A. D. Storms S. H. Telander
Guests:	G. Cirves P. W. Dwyer	R. Kyle	F. Mayle	A. Monroe
Excused:	H. L. Hess J. M. Jerabek	W. E. Laubach N. P. McQuin	G. R. Nourse N. H. Simon	S. P. Slattery
Absent:	None			

- The meeting was called to order at 8:03AM by T. Olsen, acting chair for the meeting. The chair (N. Simon) was unable to attend due to an unexpected business conflict. The vice chair (S. Slattery) was also unable to attend due to a conflict with another IEEE meeting. Mr. Olsen welcomed the members and guests and introductions were made.
- The minutes of the meeting in Galveston, TX on October 2, 2002 were approved as distributed.
- Reports:
 - ADSCOM Committee Report: Mr. Monroe reported that the following topics were discussed:
 - K. Gray is heading a task force on streamlining and improving the standards process. The task force has asked LVSD to request that NEMA transfer the conformance document for LVPCB's (C37.50) to LVSD. (see new business)
 - IEEE-SA has been asked to assist with reformatting of transferred C37 documents (e.g., C37.16, C37.17) to conform to the IEEE Style. In some cases, the transferred documents are not electronic. Before undertaking revision of any "old" standard, the electronic version (.pdf file) should be carefully checked compared to a printed copy. A number of errors in the .pdf files have been found. In essence, don't trust the .pdf file.
 - ADSCOM requests that LVSD consider whether a replacement for the present chair is needed. (see new business).
 - IEC Report (IEC 17B/WG5) Mr. Notarian
 - IEC 60947-2 Am 3 should be finalized shortly and will be published soon after.
 - A copy of the minutes of the most recent meeting will be attached.
 - C37.108 Guide for the Protection of Network Transformers: This was approved by IEEE in March, 2002, and by ANSI in August, 2002. No PAR for further revision has currently approved. Mr. McQuin has advised that there is no activity regarding the application guide paper that the working group planned to produce.

- IEEE SCC21 meeting
 - A summary of the IEEE 1547 and subsidiary documents will be available on the website.
 - The P1547 working groups (P1547.1, P1547.2, and P1547.3) Work Groups will meet June 3-5 in Denver Colorado, and again in the Fall.
 - These documents are being created without no coordination inputs from those familiar with the standards for the associated equipment.
 - The subcommittee members are strongly encouraged to get familiar with the P1547 series of documents and voice their opinions and concerns before these documents are forced to approval.

- C37.100.1: Mr. Monroe reported that the document will be balloted during the summer.

- Working Groups:
 - C37.14: This was approved by RevCom and was published in March.
 - C37.29: IEEE-SA is in the process of terminating the PAR for revision, and the existing document (C37.29-1981) will have approval withdrawn at the end of 2003. This is in accord with earlier decisions of the subcommittee.
 - C37.13: Mr. Edwards reported that D6 was reviewed. D7 will be created and circulated for further working group review this summer.
 - C37.27: Mr. Edwards reported that a draft will be circulated for further working group review this summer.
 - C37.13.1: Mr. Notarian reported that the next draft will be circulated within the working group and the resulting changes incorporated with the objective of launching a ballot in June. It is hoped that ballot results and comments can be reviewed at the Fall, 2003 meeting.
 - C37.26: The D2 ballot closed April 10 with 96% return and 96% affirmative, with two negative ballots. Ballot comments were circulated in the working group and consensus reached on resolution. Both negative balloters agreed to accept the resolution and change their votes to affirmative. The D3 recirculation ballot is currently open with a closing date of May 23. Mr. McQuin reported that STL reviewed the document with no comments. It is expected that this will be submitted to RevCom by August 1 for the September meetings of the Standards Board.

- Document Status: Document Status was circulated for updated. The document status will be updated and made a part of the minutes to be posted on the website.

- Old Business:
 - C37.18: The reaffirmation ballot closed on July 31, 2002, with 96% affirmative, 4% (one) negative. The negative ballot pointed out a valid technical problem with figures, and a number of editorial corrections to spelling, clause references, etc. The figure was correct in the 1968 edition (USASI), but incorrect in the 1979 edition. The problem may have arisen when USASI became ANSI in the early 1970's and the document was reformatted by IEEE. The figure errors were repeated when the document was converted to electronic form in the late 1990's. A description of the problem was sent to D. Ringle at IEEE-SA on May 1, asking for advice on how this situation can be resolved. Ideally, we would fix the error as an editorial correction as part of the reaffirmation. Tentatively, C37.18 is on the

agenda for the June Standards Board meetings for reaffirmation, with correction of clerical errors. The negative ballot has been changed to affirmative with comments. If the Standards Board mandates that a revision project be initiated, it appears that a sufficient number of LVSD members would be willing to support the activity to revise the document to the new IEEE Style.

- New Business:
 - LVSD officers: Concern was expressed about the activity of the present Chair:
 - Mr. Simon was contacted by phone to discuss the situation, and he offered his resignation as Chair of LVSD. He wishes to continue as a member of the subcommittee.
 - Candidates for the position of chair were sought, with the objective of obtaining a candidate from the General Interest or User ranks, to rotate the position between interest groups. This effort was unsuccessful.
 - Mr. Slattery was nominated for the position of Chair, and elected unanimously. He is classified as a manufacturer.
 - Candidates for the position of secretary were sought, preferably from the general interest or user groups.
 - Mr. Edwards was nominated for secretary, and elected unanimously. As his company does not manufacture LV products, his interest category is general interest.
 - Both officers were elected to fill the remainder of the present term (through 2003), and to serve for the following full term.
 - C37.13 and C37.50: The subcommittee considered whether to request that NEMA relinquish control of C37.50 to LVSD, and whether to add test requirements to C37.13 even if C37.50 was not released. After discussion, the members concluded that the present C37.50 document does not appear to have problems, that the requirements have proven workable, and that there is not particular benefit seen at this time to a significant change. If a need is felt to do so, the subcommittee will reconsider this issue at a future time.
 - C37 documents transferred to IEEE: The LVSD subcommittee is now responsible for the following:
 - C37.16-2000: This is current, with no action required until 2005, unless changes in C37.13 necessitate review.
 - C37.17-1997 (R 2003): This was reaffirmed on January 10, 2003 by ANSI. No action required until 2008.
 - It was indicated that C37 documents that were not transferred to IEEE can be downloaded at no charge from the NEMA website.
 - LV G&T devices: Mr. Telander voiced concerns over the concept of a low voltage ground & test device. The conversion standard, C37.59, introduced language addressing the conversion of existing equipment to include a low voltage ground & test device. However, there is no standard for such a device for new switchgear, and no corresponding design tests to demonstrate adequacy. LVSD concluded that insufficient demand exists for such a device, and will prepare a letter to the C37.59 WG chair requesting that they reconsider the language relating to LV G&T devices during the next revision cycle of C37.59. Mr. Olsen will prepare a draft for circulation within LVSD.
 - Future standards development: Mr. Telander provided some thoughts regarding the future of low voltage switchgear standards:
 - Recently, C37.23 was approved including momentary tests on low voltage metal-enclosed bus in the image of medium voltage testing, including a 10-cycle momentary

withstand test. This exceeds the 4-cycle equivalent in C37.20.1 (this was recognized and accepted within the C37.23 WG).

- Also, C37.59 was approved with references to low voltage G&T devices, for which there is no standard for new equipment. There is no standard for the device itself, nor is there a standard for the appropriate tests in the switchgear compartment for low voltage switchgear.
 - Mr. Telander feels that medium voltage and low voltage equipment should never be mixed in the same document. He feels that the considerations for the two kinds of equipment are sufficiently different that it adds greatly to complexity.
 - Accordingly, he suggests that consideration be given to moving C37.20.1 from the Switchgear Assemblies subcommittee to the Low Voltage Switchgear Devices subcommittee.
 - This would put all low voltage standards in one subcommittee.
 - Questions were raised about implications for C37.81, C37.82, C37.121, and C37.23. Would these documents also have to be split into medium voltage and low voltage documents?
 - There were several expressions of support for this idea, but no decision at this time. This will be the subject of continuing discussion.
 - Mr. Telander raised the same issues at the meeting of the Switchgear Assemblies subcommittee.
- Working group chairs, please provide an electronic copy of your report to T. Olsen by May 7.
 - Working group chairs, please submit your WG room requests for the Fall 2003 meeting to Mr. Burse by July 1, 2003. Working groups are asked to carefully consider any audio visual equipment requirements, as A/V equipment is a major expense.
- Upcoming Meetings

Sept. 20-25, 2003

Marriott Portland Downtown
1401 SW Naito Parkway, Portland, OR 97201

Spring, 2004

Galveston, TX

- The meeting adjourned at 11:34 AM.

Minutes submitted by:

T. W. Olsen
Acting Chair and Acting Secretary