

IEEE Surge Protective Devices Main Committee (3.0) Meeting Minutes Fall Meeting, OMNI at the CNN Center, Atlanta October 12, 2007

1) Call to order

Chairman Doug Dorr called meeting to order, members and guests introduced themselves. There were 15 members and 4 interested parties in attendance.

2) Approval of agenda

Agenda was displayed via projector and was approved with one item added under new business as documented below in the New Business section of these minutes.

3) Approval of minutes of last meeting

The Spring 2007 Meeting Minutes from Clearwater, Florida were approved as posted on the SPDC online community website with no changes.

4) Subcommittee reports

(3.1) Administrative & Standards – Doug Dorr

Doug reported that A&S met for 4 hours on Wednesday October 3rd, 2007 and will need a similar time slot for the Spring 2008 meeting. The officer changes were posted

Highlights from the A&S meeting included the awards ceremony at the luncheon and a new effort to get IEEE fellow nominations from the SPDC membership.. Draft minutes for A&S will be posted on the on-line community website under the 3.1 Main committee folder (once approved). Unapproved minutes will be filed in the unapproved minutes folder.

1. Secretaries Report – Ken Brown

- a. Awards Presentation – Bill Goldbach presented the awards at the awards ceremony. The recipients of the awards are documented in the A&S minutes.
- b. Financial Update - The IEEE balance is approximately \$8,000 following the Fall meeting which is \$4500 below the end of the Spring Meeting. Financially the SPDC is in good shape and will end up the year somewhere around last years ending balance.
- c. Future Meeting Dates – Ken reported that the fall meeting was now confirmed for October 1-5, 2007 at the Omni CNN center in Atlanta

2. Bibliography- Carl Lindquist

- i. Carl met Wednesday for 3.5hrs and 5 of 14 members attended
- ii. Carl requested 4 hours on Wednesday for the next meeting.
- iii. Three task forces running that could turn into working groups
- iv. Symbols library is going well and should be turned on soon
- v. Mick placed the IEC dictionary link on the grouper website.

- vi. The flow chart requires that all new documents go to 3.2 for a review of the definitions. The HV and LV coordinator should ensure that this review occurs.
- vii. **Action: The working group chairs will review the flow chart (revision 5) at the Spring Meeting.**
- viii. **Mick Maytum: The flow chart will be sent by email to the high and low voltage chairs.**
- ix. The IEEE may have funding for the bibliography work.

3. High Voltage Sub-Committee Report - Steve Hensley

- a. Steve reported the highlights from his meeting and a copy of the HV sub-committee report was added to this report as an appendix. Highlights include:
 - i. Action: Steve will submit the schedule for the Spring meeting.
 - ii. Mike Comber has 1 new member in WG
 - iii. Mikes group is developing a rational for each test.
 - iv. Eva's group completed work toward the application guide and look at items to write the next time around
 - v. Dave Jackson's and Rusty Robbins group did not meet but are expected to meet in the Spring
 - vi. Big item this session was the application guide (new issue). Battling editorial issues with the templates. The PAR was extended.
 - vii. Dave Jackson's corrigendum is out for ballot
 - viii. Ray Hill gave a presentation on NEETRAK testing
 - ix. Online community is a great place to put documents but getting work done works better when the document is sent by email.
 - x. Steve stated that the HV group will be missing many people including himself.
 - xi. Trying to get the straw poll of who is going to attend the Fall Meeting in Costa Rica. We will need to facilitate web meetings if the turn out is low.
 - xii. **Action: Steve will survey the members and provide an estimate of members planning to attend the Fall meeting in Costa Rica**
 - xiii. **Action: Doug will hold a Webex practice session**

4. Low Voltage Sub-Committee Report – Ray Hill

- a. Ray reported the highlights from his meeting and a copy LV sub-committee report will be added to this report as an appendix. Highlights include:
 - i. WG 3.6.6 and 3.6.9 renamed the working group to better reflect their purpose. WG 3.6.4 will change their name also.
 - ii. WG 3.6.2 Review ballot results for .35 and they will write a new Par for .35

- iii. WG 3.6.3 had a virtual chairman due to the absence of Tom Harmon. The meeting was productive
- iv. WG 3.6.4 working on the Trilogy .1, .2, and .45. Since the 10x350 is a test wave it was moved to .45
- v. WG 3.6.6 C62.72 was published in August
- vi. WG 3.6.7 revising .64 looking to ballot next year
- vii. WG 3.6.9 Reviewed draft 11 of .44. 400 comments from balloters will be incorporated into the next draft. Reviewed .34 also
- viii. WG 3.6.10 Working on .50 and .51. Most work on .50 and the PAR run out at the end of the year. A new PAR will be created.
- ix. **Action: Ray Hill will submit WG schedule with times to both Ken Brown and Tony Surtees**

5. Web and Electronic Documentation – Mick Maytum

- a. Mick reported the highlights from his meeting and a copy “online” subcommittee report will be added to this report as an appendix. Highlights include:
 - i. The grouper website has moved to version 10 of software now it is much more stable
 - ii. Forum people experienced ill planned member upgrade. The numbers dropped to 572 and 24 new member signed into the forum which is encouraging
 - iii. Most of Mick’s effort has been involved in documentation. Mick help out the IEEE FrameMaker to word conversion.
 - iv. Mick located conversion software that provides a tremendous improvement in the process
 - v. Mick is reviewing electronic meeting aids. Flip charts are expensive to rent and an electronic graphics template will work better and save cost.
 - vi. Mick is looking into a VoIP Conference Phone. Down side is the internet bandwidth it will use. Benefit is ease of set up and video capability.
 - vii. Word 2007 has several serious incompatibilities of the previous work versions. More detail located in the 3.7 report and the A&S minutes
 - viii. Mick request the same meeting time for Spring as documented in this Fall meeting

6. IEC Tag 37A Activities – Joe Koepfinger

- i. The report will be posted with the A&S meeting minutes.
- ii. Joe did not attend this main committee meeting and Doug posted and reviewed Joe report included the liaison D activities.
- iii. Mick stated that the LV liaisons are covered fairly well.
- iv. At the IEEE board meeting that an NFPA proposal to remove the utility exemption from the documents was approved. Frank noted that the proposal will probably eventually be rejected.

7. TC37 – Mike Comber

- a. The report will be posted with the final version of the Main Committee minutes.
 - i. TC37 plenary meeting next month at NEMA Headquarter. First time technical committee will meet since 2004
 - ii. Working on a test standard for HV MOVs
 - iii. A CD was issued last June and the comment period has just concluded
 - iv. Maintenance team 10 over hall to the application guide activity has slowed due to convener time issues. Mike working to get the activity moving forward again
 - v. WG 11 glossary of term and definitions work is in process
 - vi. WG12 Andi Haa is restructuring the IEC standard for different arrestors to separate parts The activity will be brought to the TC for review.

8. TC37B – Mick Maytum

- a. The report will be posted on www.ieeecommunities.com
- b. The activity is in 2 maintenance team #1 and #2. Last met last week for 3 days in Germany. Next meeting is next year in Japan. Leonard is a convener of 1 team and member of another

9. TC81 – Tony Surtees

- a. Tony was not in attendance and no report was submitted.

10. Standards Coordinator Reports

Jim Wilson HV

- a. Jim's report will be posted with final version of the Main Committee minutes
- b. Dave Jackson conducted 2 ballots since the last meeting
- c. Par extension are all approved Possibly 2 more par extensions will be submitted in the future.

Bill Goldbach LV

- a. Bill was not in attendance, the report will be posted with final version of the Main Committee minutes.
- b. According to Bill everything is up to date and the IEEE automation is helping considerably

11. Old Business

- a. Surge Protection Applications for wind farms. Ron is working with Dave on this issue
- b. Questions by Don Zipse regarding the hazardous neutral conductor. Doug requested that papers related to this effort be shared with the IEEE-SPDC
- c. Doug sent an email to Chuck Denardo Chair of IEEE 1695 and offered to provide information in case they would like us to provide a rebuttal to the Zipse paper.

- d. Discussion in the Emerald Book to a draft 1 of C62.72. Doug sent the information into the IEEE and the issue is in their hands. The grounding subcommittee has responsibility for both the Green Book and the Emerald book. The harmonics from all books will be consolidated into one single document.
- e. Ultra High Voltage Symposium. Joe was retained by the USNC committee and Joe completed an excellent report on this. There is a lot of activity in this area especially in China and India. It involves high voltage only. There is a movement in the IEC to put together some ultra high voltage subcommittees.
- f. Flow chart is complete showing the IEEE process to revcom.

12. New Business

- a. Develop a new IEEE-SPDC Tutorial
 - i. Jon asked, what are the expectations? Jon is willing to put something together from the high voltage side. Doug mentioned that it should be something documenting our knowledge in a workshop format. There is an opportunity for a group of experts to be involved in this with some guidance from A&S
 - ii. Doug mentioned that there should be 1 from HV and 1 from LV.
 - iii. This work is likely to bring us new members. It should be a 4-8 hour workshop. We should build an 8 hour workshop and have a condensed 4 hour workshop.
 - iv. The workshops should have the goal of educating anyone that does not attend the meetings.
 - v. **Action: Jon Woodworth volunteered to facilitate the HV tutorial. Jon requested a 2 hour slot for the SPD Tutorial**
 - vi. **Action: The group as a whole should identify reference documents such as Surges Happen to be used in the tutorial**
 - vii. **Action: Jon will create an SPD workshop folder prior to the meeting for reference documentation**

13. SPDC Future Meeting Locations and Schedule

- a. The Spring meeting will be held the week of May 12, 2008 at the Sheraton Sand Key Resort in Clearwater Florida
- b. The next Fall Meeting 2008 will be held the week of November 10, 2008 in Costa Rica.

Meeting Adjourned IEC TC37 High Voltage Surge Arresters

Report to IEEE SPD Committee – October 4, 2007

IEC TC37 is comprised of the following subcommittees (SCs), maintenance teams (MTs) and working groups (WGs):

- SC37A: Low voltage surge protective devices
- SC37B: Components of surge protective devices
- MT4: Maintenance of IEC 60099-4 and -6 high voltage arrester testing standards
- MT10: Maintenance of IEC 60099-5 high voltage arrester application guide
- WG11: Harmonization of terms used in IEC high voltage arrester and low voltage surge protective devices standards
- WG12: Restructuring of IEC 60099 standards into a new multi-part document designated as IEC 61344

A separate report is expected to be provided for the activities of SC37A and SC37B. The following summary is provided for the other activities within TC37.

TC37 (Chairman: Michele DeNigris, IT)

A plenary meeting of TC37 is scheduled for November 8/9 in Rosslyn, VA (at NEMA headquarters). This will be the first time the TC has met since October 2004.

MT4 (Convenor: Volker Hinrichsen, DE)

MT4's principal activities continue to be (1) test standard for externally-gapped line arresters (EGLA), and (2) revision to mechanical and environmental type tests of IEC 60099-4.

CDs on both were issued in June of this year (37/333/CD and 37/336/CD, respectively). The National Committee comment period has just expired on both, and compilation of comments is under way for review by MT4 at a meeting scheduled for the 2 days prior to the TC37 plenary meeting.

MT10 (Convenor: Tong Kwong, UK)

MT10 last met in Milan, Italy on April 4-5, 2007. The MT is working on a significant overhaul of the IEC 60099-5 application guide for high voltage metal-oxide surge arresters. Due to the extensive nature of the revision of the application guide, it is considered highly probable that more than one CD will be required before the document would be ready for the CDV stage. It was expected that a first CD would be ready for issue by mid-June, but this did not happen. The convenor of this MT has expressed his desire to step down, due to other demands on his time that prevent him from devoting the necessary attention to the MT work (likely the primary reason for the CD not being ready as expected). The TC37 Secretary is working with the convenor in an effort to get activity moving forward.

WG11 (Convenor: Mick Maytum, UK)

IEC has published a glossary of all terms and definitions used in TC37 standards. A joint Working Group of WG11 and IEC TC1 is now working to refine this glossary using the new IEC database system to produce chapter 456 of the IEC dictionary (IEV).

Content (from IEC/PAS 60099-7), which reduces to about 150 terms once duplications are removed, is being uploaded for review at the next meeting in Paris in November.

WG12 (Convenor: Andi Haa, US)

WG12 is charged with restructuring of the IEC 60099 series of standards into a new multi-part document. The new document, with new number 61644, will have a Part 10 covering “general considerations” followed by Parts 20, 30, 40, etc for type tests that are specific to different type of arrester (porcelain housed, polymer housed, liquid-immersed, etc). The application guide (60099-5) would be incorporated as another Part of this document. The project is currently in the “zero state”. The activity is largely an editorial task, to take the existing standards and restructure them into the various parts. The idea is that the standard requirements for a particular type of arrester would be completely defined by the “general considerations” Part 10 and the “specific requirements” part (Part 20, or 30, or 40, etc.) for the particular type of arrester of interest.

However, there is now considerable questioning among those in the TC37 standards-making community as to the real value of this project. This matter will be discussed at the TC37 meeting in November, and a decision regarding the future of this activity will be made at that time.

Respectfully submitted,
Mike Comber
Secretary TC37