

## **7.4 Underground Transformers and Network Protectors - Carl G. Niemann**

Meeting Minutes – San Diego, California

### **7.4.1 Introduction/Attendance**

The Underground Transformers and Network Protectors Subcommittee met on Wednesday, March 10, 2004, in the Boardroom E/W room of the Catamaran Resort Hotel at 9:30 AM with eleven members and five guests present.

### **7.4.2 Approval of Minutes**

The minutes of the October 8,, 2003 meeting in Pittsburgh, Pennsylvania were approved as submitted.

### **7.4.3 Membership**

Membership stands at 20 members.

### **7.4.4 Chairman's Remarks**

#### **Administrative Subcommittee Notes Reported to SC**

- The Chair reported that the AdCom SC had approved the transfer of C57.12.23 ( Shingle Phase Underground Transformers) from Distribution Transformers SC to this SC..
- The subcommittee was informed that IEEE had Approved a new Stabilized Standard category where we can place C57.12.57. I can remain there inactive without being withdrawn and can always be revised at a later date if a necessity arises.

### **7.4.5 Working Group Reports**

#### **7.4.5.1 Three-Phase Underground-Type Transformers (C57.12.24) Giuseppe Termini Chairman**

1. Met on Monday, March 8, 2004, at 9:30 AM in the Boardroom East with ten members and seven guests present.
2. Minutes of the October 6, 2003 meeting in Pittsburgh were approved.
3. John Sullivan announced his intentions to step down after the next meeting and turned the meeting over to Giuseppe Termini.
4. Discussions under old business centered around; fin metal thickness; tank material thickness and coating material; and, construction requirements for wet verses dry locations..
5. Brian Klaponski recommended a review of dimensions related to Dwg. 7.1.5. He would like to see clearance requirements more in line with the pad mounted requirement.
6. Dan Mulkey recommended referencing C57.12.28 for dry locations and C57.12.29 for wet locations. He also pointed out the need for an active PAR.
7. Paul Orehek recommended a complete review of the standard.

8. The meeting was adjourned at 10:12 AM.

#### **7.4.5.2 Liquid Filled Secondary Network Transformers (C57.12.40) B. Klaponski – Chairman**

1. Met on Monday, March 8, 2004 at 3:15 PM with 14 members and five guests present.
2. Minutes of the October 6, 2003 meeting in Pittsburgh were approved as submitted.
3. The Chairman distributed copies of Draft 1 of C57.12.40 to the members.
4. There was discussion on the Draft and Stan Kostyal and Steve Schroeder volunteered to cross check the metric conversions in Table 9 and in the drawings. Dan Mulkey will get them a copy of the 'official' metric conversion spreadsheet.
5. Brian will communicate with the IEEE editorial staff to get a preballot editorial review. When complete the standard will be balloted ASAP.
6. In discussion on the next revision questions arose regarding the network switch requirements. A task force consisting of Larry Dix, Steve Schroeder, Iqbal Hussain, and Joe Cultrera was set up to review the requirements and report back prior to the next meeting.
7. The meeting was adjourned at 4:15 PM.

#### **7.4.5.3 Secondary Network Protectors (C57.12.44) D.H. Mulkey – Chairman**

1. Met on Monday, March 8, 2004 at 1:45 PM with nine members and two guests present.
2. Minutes of the October 6, 2003 meeting in Pittsburgh, Pennsylvania were approved as written.
3. Discussion centered on:
  - A. Reviewed Clause 5.2.5 provided by Jock Moffat. Minor modifications were made.
    - 5.2.5 – “phase to phase” changed to “three phase”.
    - 5.2.5.2 – “fuse let-thru” changed to “fuse peak let-thru”; last line was dropped.
    - 5.2.5.3 – drop last bullet item and renumber items.
  - B. Reviewed pre-ballot editorial comments:
    - a. .28, .32, .40, and C37.108 will remain in Clause 2. The remainder will be moved to a reference annex. Mulkey will review and update, if appropriate, dates of the remaining references. Moffat will research titles of ASTM 495, D229, UL746A, and UL94. They will be added to the reference annex.
    - b. Mulkey will insert editors suggested phrase about referring to IEEE 100 at start of Clause 3.
    - c. 3.1.3 – replace “the removable breaker” with “an assembly that”.

- C. Under New Business – Mulkey will end finished draft to members and guests for a quick final review before submitting it to balloting.
- 4. Request one session for next meeting.
- 5. Meeting adjourned at 2:44 PM

#### **7.4.5.4 Ventilated Dry-Type Network Transformers (C57.12.57) A.L. Robinson – Chairman**

No report, Chairman not in attendance. Working Group discussed moving this to new category

#### **7.4.5.5 Underground Single Phase transformers (C57.12.23) A. Traut - Chairman**

These minutes will be added after next meeting.

#### **7.4.6 New Business**

Dan Mulkey informed the SC that C57.12.80 was being revitalized. This standard is for definitions used in standards.

#### **7.4.7 Future Meetings**

The location and dates for future meetings are as follows:

October 24-28, 2004	Las Vegas, Nevada
Spring 2005	Jackson, Mississippi

#### **7.4.8 The Subcommittee adjourned at 10:45 AM.**