

IEEE PSES TSTC

Meeting Minutes: 27 October, 2010

Attendees: Don Gies (Alcatel-Lucent), Philip Havens (Littelfuse), Peter Lim (Alpha Technology), Al Martin (Tyco/Raychem), Paul Ng (Lineage Power), Joe Randolph (Randolph Telecom), Gary Schrempp (Dell), Jim Wiese (Adtran)

Introductions

A round of introductions was conducted for the benefit of the new members.

Administrative topics

The meeting was chaired by Don Gies, in Peter Tarver's absence.

The minutes from the last meeting were approved as submitted

Discussion topics

3. Discussions from IEEE PSES Symposium, SmartgridComm, or other symposia with TSTC or telecom safety interest

- a. Many of us met one another in Boston
- b. Some gave papers related to telecom safety
- c. Technical Committee's meeting
- d. SmartGridComm at NIST – 100 papers, keynote addresses from many technology leaders and Obama Administration, potentials for telecom, thus telecom safety

e. Other activities: GR-1089-CORE

Jim Wiese: From a product safety standpoint, the primary protector will be changed to reference the GR974 high-level protector, which has an AC max voltage of 425 Vrms.

Bonding and grounding: Need to be more specific on requirements. Jim would like this issue put on the agenda for discussion.

A new article 840 in the NEC-2011 covers ONTs. As a discussion item, compare NEC article 840 to GR1089.

Joe Randolph: ONT mounted on the outside of the house. Damage was caused by surges were coming from inside, not outside.

Review of IEEE PSES Symposium

Don and Al presented papers on Smart Grid issues

All the TACs met at lunch on Tuesday, and then split out into discussion groups for the individual TACS. The work of the Telecom TAC was well received.

Review of SmartgridComm

Significant international participation.

- Papers presented were mostly on communications.

- 10.5 billion dollars in Federal stimulus allocated to Smart Grid.
- Alcatel-Lucent had a paper talking about field trials for equipment that gathered information about power consumption. In China, there was a trial using GSM. But this is an expensive way to go.
- Nobody knows yet what the Smart Grid will look like

4. Proposal to modify CSA/UL 60950-21 (Jim Wiese)

This standard is incompatible with North American practices. Attempts to revise it have been unsuccessful. There has been a proposal to add annex basically adding a North American deviation to make the document compatible with North American practice.

Joe Randolph: What happened to the permanent ground exemption?

Paul Ng: We use basic insulation and grounding.

Jim Wiese: There is no reinforced insulation in the North American network. There is no expectation that the 60950-21 standard will be followed.

Joe Randolph: Outside North America, does anyone use high voltage?

Jim Wiese: No

Joe Randolph: What voltage do you use for span powering?

Jim Wiese: We limit our voltage to 120 V, which avoids -21. We use UL2391 to get around the -21 standard.

Jim Wiese: Span powering voltage can go to 400 V T-R. The supplies are limited to 10 mA T or R to ground, but no limit on T-R current. The T-R current can be 300 mA, which would be lethal.

5. Proposed action for safety of cabinets containing lead-acid batteries (Don Gies)

Joe Randolph: Would like to see a proposal on this.

6. Additional items

No one on this call went to the NEBS conference.

Verizon eliminated a big part of their wireline group.

7. Next meeting (24 Nov 2010, the day before Thanksgiving)

Respectfully submitted,

Al Martin
Secretary

**IEEE Product Safety Engineering Society
Telecommunications Technical Activities Committee Roster**

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Guest: Jack Burns, Dell, IEEE PSES, VP Technical Activities

Chair: Peter Tarver
Vice Chair: Don Gies
Secretary: Al Martin

- 1) UL Standards Technical Panel for Subjects 60950-1, -21, -22, -23
- 2) TIA TR 41.7, TR41.7.1
- 3) IEEE Surge Protective Devices Committee
- 4) ATIS Protection Engineers Group
- 5) ITU-T, SG5, WP1
- 6) Canadian National Subcommittee for IEC TC108
- 7) TIA TR 41.7.10 (Smart Grid)

Other LinkedIn members:

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hifi cha, China (Independent Consumer Electronics Professional)