

IEEE Product Safety Engineering Society

IEEE PSES TSTC

Meeting Minutes: 25 April 2012

Members present: Don Gies (Alcatel-Lucent), Peter Lim (Alpha Technology), Al Martin (TE Connectivity), Paul Ng (GE Energy), Joe Randolph (Randolph Telecom), Dan Roman (Dialogic), Gary Schrempp (Dell), Tom Smith (TJS Technical Services Inc), Anne Venetta-Richard (Alcatel-Lucent) Jim Wiese (Adtran),

Members absent: Tim Ardley (Adtran), Philip Havens (Littelfuse), Mick Maytum, Doug Parker (Adtran), Peter Tarver (Enphase Energy), Steve Zugay (Cree),

1. Attendance/Introductions

Attendees introduced themselves. There were no new members.

2. Previous meeting minutes (Attached)

The minutes from the last meeting were approved as submitted

3. New business

- a. Report from Jim Wiese: ATIS met in Seattle. The NEP sub-committee continued work on a span-powered standard. They also continued work on a broadband protector standard. This standard looks at the pros and cons of various protection technologies. The idea is to allow service providers to determine suitability of a technology in terms of rate-reach trade-offs.

James Crook of Hydro-Quebec addressed grounding and bonding issues.

The ATIS NPS sub-committee worked on DC power plant. It is near completion. Initially this standard was going to have 380 V power systems, but that will be covered in a new standard.

- b. Gary Schrempp: TCB Conference in Baltimore may surface interesting issues.
- c. Brazil got suspended from the CB scheme. Brazil imposed the requirement that CB reports must come from an ILAC-accredited lab, but that is not a CB requirement. Adding requirements is not allowed in the CB scheme.

4. IEC TC108 National Committee Activity – D. Gies, T. Smith

- a. TSTC Proposal for IEC 60950-22– Battery Cabinet Ventilation has been submitted to US TAG. Don has been corresponding with Tom Burke (UL) on this. Tom commented that there was support to move the proposal to TC108, but the proposal should align more to the TC108 style. This proposal will also be on the agenda for the Canadian National committee meeting April 26.
- b. TSTC Proposal for IEC 60950-22 – Outdoor Enclosure Metals. The proposal is to exclude need for testing certain metals. Submitted to US TAG. The feedback is that it looks too North-American centric. Tom's comment on the IEC 60950 proposal also applies to this proposal.

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5. New Telcordia GR-3171-CORE, Issue 1, Generic Requirements for Network Elements Used in Wireless Networks Physical Layer Criteria. (Don Gies)

The new Telcordia GR-3171-CORE resembles GR1089, but applies to wireless equipment. The equipment could be located anywhere, so need to be sure that the requirements are appropriate. The new standard tries to cover everything. In many ways this will be a “pointer” standard, since there is so much to cover.

A lot of the folks involved are new to wireless.

There have been issues with local authorities applying requirements that were not appropriate.

There are lots of opportunities to tweek the requirements that affect safety.

6. Additional agenda items

7. Old Business

a. Smart Grid Issues

Nothing

b. 380 V DC power systems

See 3a.

c. Lightning/Ground potential rise discussions

Nothing

d. Discussion of IEC 62368-1

IEC 62368-1 is controversial. Many folks are against adopting it, because it is not supposed to be prescriptive, but requirements have been added which makes equipment/testing more expensive.

Gary Schrempp: First edition has not been adopted universally. The idea behind IEC 62368-1 was that there would be a lot of ways to meet requirements. That turned out not to be workable. Having an open-ended standard left it open to the agencies to determine what was acceptable, and the agencies have varied on their interpretations. Eventually that needs to be fixed, but as a reference, IEC 60950-1 has taken 15 years to come to agreement on requirements. The new standard has some benefits, but do they outweigh the costs?

Joe Randolph: It looks like IEC 62368-1 offers ways to get out of meeting the requirements of IEC 60950-1.

Don agreed, and cited a case of equipment that has gotten hotter as more capability is packed into a smaller package. Instead of prescribing an absolute maximum temperature for hot metal surfaces, IEC 62368-1 allows putting a statement in the service manual instructing the service person to wait for a period of time after disconnection from power before servicing.

IEC 62368-1 also readdresses the handling of voltages of cable distribution systems and wireless systems in a way that is more favorable for service-access equipment than IEC 60950-1, Section 7. So it can be helpful to manufacturers in that respect, but other features are killers.

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Don suggested adding an agenda item for future meetings to bring up the pros and cons of IEC 62368-1, as they apply to telecom.

Gary: Vote on Ed 2 of 62368-1 coming up. The vote will be close. If vote fails, the fate of the standard will be in limbo. Joe expects to have an update by next meeting.

Don will circulate the CDV for IEC 62368-1 Ed 2.

Joe: It takes many years of experience to define problems. So the prescriptive approach of IEC 60950 is better than the non-prescriptive approach of IEC 62368.

8. Next Meeting

Next meeting: Wednesday, May 30, 2012.

Respectfully submitted,

Al Martin
Secretary

Participant	Employer	Telephone	E-mail	IEEE Member?	PSES Member?	LinkedIn Subgroup	Other Committee
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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)
- 8) US TAG to IEC TC 108

Other LinkedIn members:

hifi cha, China (Independent Consumer Electronics Professional)

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Jeff Whitmire (Manager, Regulatory Compliance at Adtran)

Telecommunications Technical Activities Committee Roster