

IEEE Product Safety Engineering Society

Minutes of the IEEE PSES TSTC teleconference held Wednesday, October 28, 2015 at 11:00 AM EST, for one hour.

1. Attendance/Introductions

Members present: Don Gies (Alcatel-Lucent), Al Martin (retired), Joe Tom Smith (TJS Technical Services Inc), Jim Wiese (Adtran).

Members absent: Philip Havens (Littelfuse), Peter Lim (Alpha Technology), Maytum (MJMaytum), Paul Ng (GE Energy), Randolph (Randolph Telecom), Dan Roman (Colgate Palmolive), Gary Schrempp (Dell), Steve Zugay (Cree), Svetlana Ulemek (Burndy). Anne Venetta-Richard (Alcatel-Lucent)

Interested parties

Tim Ardley (Adtran), Doug Parker (Adtran), Peter Tarver (Enphase Energy)

2. Meeting arrangements

Desktops were shared using Lync/Skype for Business provided by Don Gies:

Click on the link below to view presentation in your browser or Skype App.

Join Skype Meeting

<https://meet.lync.com/alugroup-alcatel-lucent/don.gies/4PCVH1HA>

[First Skype Meeting?](#)

This call and all future calls will use Don Gies' Alcatel-Lucent bridge numbers below, until further notice.

Bridge No. (Toll Free): 1-800-771-8734

International Access: +1-647-723-3953

Access Code: 5825978

3. Previous meeting minutes (attached)

The minutes of the last meeting (September) were reviewed. Approval was deferred until next meeting, due to lack of quorum.

4. New business?

a. GR-487-CORE, Issue 5 TTF started

Don: Reduced flammability ratings proposal under consideration. Gasket material usually not a flammability issue, so current flammability rating is too high.

Don: GFCI doesn't necessarily need to be located in a cabinet, as long as it is nearby.

Don: The big issue: Most wireless equipment uses fresh air filters, not heat exchangers, so need to address that.

b. IEC TC108 Minsk Meeting

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Don: Didn't go to meeting, but did get the e-mails. Asked about UV rating for gaskets. Sent in submission saying that if the gasket is not exposed, then shouldn't have to meet UV requirements.

Don: Induction wireless charging – IEC working on that. Everyone thought that they were talking about RF transmitters because the issue was titled “wireless power transmission”. But the concern is with units that charge things like a phone. Issue is that if you put a metal object on top of the charging unit, it could get hot and possibly burn.

Jim: As we're migrating to indoor ONTs we're seeing massive destruction of the ONT units, especially the Ethernet ports. None of the units had lines running to outside buildings, and none had Smith terminations.

Don: Japanese national committee submitted a proposal for revision of IEC 62368-1 second edition entitled “Use of an SPD between the mains and external circuit”. They want to bridge the reinforced insulation with an SPD. Don will send out the document.

Jim: It would be interesting to see if anyone else has seen this type of failure. Problem: 80% of failed units are just thrown away, so we don't see them. Jim starting a program to find out what's happening.

Don: I haven't seen anything, but I wouldn't unless someone in the organization thought it was a safety issue.

Jim: The destruction is confined to the ONT unit, so it's not a safety problem.

Jim: Ethernet ports have been classified as SELV circuits, so they should not have surges on them. But they do, so they should be TNV1.

Jim: Some units are powered with a wall-wart or UPS. If the powering units have SPDs in them, they could have a ground. Also if these units are powered through a plug-strip there could be a ground. Question: Where are the surges coming from?

5. Additional agenda items

None

6. Old Business

Protection of DC feeds to radio equipment at the top of towers

Al Martin: This is an issue which is currently being considered in several standards organizations.

Al gave a brief discussion of surges on the DC feeds due to lightning.

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Next meeting – Proposed Wednesday, 2 December 2015. We combine the November/December meeting in early December because of the Thanksgiving/Christmas holidays.

Respectfully submitted

Al Martin, Secretary