

IEEE Product Safety Engineering Society

Minutes of the IEEE PSES TSTC teleconference held Wednesday, July 23, 2014 at 11:00 AM EST, for one hour.

1. Attendance/Introductions

Members present: Don Gies (Alcatel-Lucent), Al Martin (retired), Joe Randolph (Randolph Telecom), Dan Roman (Colgate Palmolive), Anne Venetta-Richard (Alcatel-Lucent)

Members absent: Tim Ardley (Adtran), Philip Havens (Littelfuse), Peter Lim (Alpha Technology), Mick Maytum (MJMaytum), Paul Ng (GE Energy), Doug Parker (Adtran), Gary Schrempp (Dell), Tom Smith (TJS Technical Services Inc), Peter Tarver (Enphase Energy), , Jim Wiese (Adtran), Steve Zugay (Cree).

2. Meeting arrangements

Don Gies supplied the call-in number:
Bridge No. (Toll Free): 1-800-771-8734
International Access: +1-647-723-3953
Access Code: 5825978

3. Previous meeting minutes

The minutes from the last meeting were approved as submitted

4. New business or new agenda items

Election of Chairman and Vice Chairman of TSTC – Don Gies

A bit of housekeeping is becoming necessary for the TSTC. For some time, Peter Tarver, the original chairman of the TSTC has been inactive in the group, due to his present job. As the vice-chairman, I had become the acting chairman.

As I was thinking of the next steps for Joe Randolph's paper and other items of interest, I realized that we are not in direct contact with senior leadership in the IEEE PSES.

To correct this, I am asking to be voted in as the Chairman, so that we can request the change at PSES.

Don was unanimously approved as the new chairman

Also, we need a candidate to become the Vice Chairman. This is easy. The candidate should have access to a conference bridge, be able to set an agenda or run the meeting in my absence, and take minutes in the absence of the secretary. No candidates at this time.

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AI: Actually a bridge is not needed. The IEEE has a join.me account which can be used for meetings. Join.me has both audio [via VOIP] and screen-sharing.

AI forwarded to Don a link for information on the IEEE join.me account. The thought is to try join.me for the next meeting

5. US TAG Meeting – Outdoor enclosure metal- Don Gies

I am planning on attending the next ANSI/US Technical Advisory Group meeting in San Diego at the end of September. Having pushed the battery ventilation through the TC 108 into a CDV of IEC 60950-22, I would like to forward the other proposal from TSTC on the use of certain metals that should not need corrosion testing, which includes aluminum.

Don: NEMA has excluded a group of metals from the need to test for corrosion.

IEC has not put an exemption in their standards for metals like aluminum and copper. Don is going to suggest that the IEC include an exemption for metals like aluminum.

Joe: What about magnesium?

Don: Would probably need to test the enclosures. Don't use pure magnesium – use an alloy. Generally aluminum is used for enclosures. IEC doesn't have enough history on corrosion testing to draft a standards requirement.

6. Protection of DC feeds to radio equipment at the top of towers – AI Martin

This is an issue that has a lot of interest with outdoor wireless installations.

- a) What protection is typically installed on equipment that will be located at the top of towers, and is any consideration given to the height of the tower?

AI: Protection is typically MOVs. Question is what ratings the MOVs should have. Tower height doesn't appear to be a consideration.

- b) What lightning waveshape is considered when designing protection for equipment to be located at tower tops?

AI: The lightning waveform is dependent on the height of the tower. Generally the waveform used is the IEC 62305 200 kA 10/350. Protection needs depend on how the lightning current gets coupled onto the dc lines. One known experiment on this coupling has been reported to the ITU-T. It is an unpublished committee document. AI will see if he can forward a copy of this to the Committee.

- c) Is there any information about the failure of installed protection to protect equipment located at tower tops?

Don: Service providers specify the protection, and might have information about failures [which would probably be hard to get].

7. Lightning Surge Damage to Ethernet and POTS Ports Connected to Inside Wiring - Joe Randolph

Joe's paper was awarded "Best Paper" at the ISPCE 2014 Conference in San Jose, CA.

8. Old Business

None

Next meeting

Proposed [Wednesday, August 27 2014](#).

Respectfully submitted,

Al Martin

Secretary

Participant	Employer	Telephone	E-mail	IEEE Member?	PSES Member?	LinkedIn Subgroup	Other Committee
Tim Ardley	Adtran		tim.ardley@adtran.com				
Don Gies	Alcatel-Lucent	+1-908-582-5978	don.gies@alcatel-lucent.com	X	X	X	8
Phillip Havens	Littelfuse	+1-214-450-9658	phavens@littelfuse.com			X	2
Peter Lim	Alpha Technologies	+1-604-638-8687	peter.lim@alpha.ca				
Al Martin	Somewhat retired	+1-510-339-2859	amartin@yahoo.com	X		X	3,4
Mick Maytum	Retired	+44-1234-838589	m.j.maytum@ieee.org				3,4,5
Paul Ng	Lineage Power	+1-972-244-9492	paul.s.ng@ge.com				
Doug Parker	Adtran						
Joe Randolph	Randolph Telecom	+1-781-721-2848	jpr@randolph-telecom.com	X	X	X	4
Dan Roman	Colgate Palmolive		dan.roman@ieee.org	X	X	X	
Gary Schrempp	Dell	+1-512-724-3757	gary_schrempp@dell.com	X	X	X	
Tom Smith	TJS Technical Services	+1-403-612-6664	tsmith@tjstechnical.com			X	6
Peter Tarver	Enphase Energy	+1-707-763-4784	ptarver@enphaseenergy.com	X	X	X	
Anne Venetta-Richard	Alcatel-Lucent						
Jim Wiese	Adtran	+1-256-963-8431	jim.wiese@adtran.com			X	2,4
Steve Zugay	Cree	+1-919-850-6219	szugay@bellsouth.net			X	

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

Chair: Peter Tarver

Vice Chair: Don Gies

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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)

Jeff Whitmire (Manager, Regulatory Compliance at Adtran)

Telecommunications Technical Activities Committee Roster