IEEE Product Safety Engineering Society
IEEE PSES TSTC
Meeting Minutes: 28 March 2012

Members present: Don Gies (Alcatel-Lucent), Peter Lim (Alpha Technology), Al Martin (TE Connectivity), Mick Maytum, Paul Ng (GE Energy), Doug Parker (Adtran), Joe Randolph (Randolph Telecom), Tom Smith (TJS Technical Services Inc), Anne Venetta-Richard (Alcatel-Lucent)

Members absent: Tim Ardley (Adtran), Philip Havens (Littelfuse), Dan Roman (Dialogic), Gary Schrempp (Dell), Peter Tarver (Enphase Energy), Jim Wiese (Adtran), Steve Zugay (Cree),

1. Attendance/Introductions
   New Member – Doug Parker-Adtran

2. Previous meeting minutes (Attached)
The minutes from the last meeting were approved as submitted

3. New business
   a. Electronic Fusing – Al Martin
      Discussed, but no action needed at this time.

   a. TSTC Proposal for IEC 60950-22– Battery Cabinet Ventilation (attached) - Submitted to US TAG
      Don has been corresponding with Tom Burke (UL) on this. Tom said the proposal will be added to the agenda as is. There will probably not be any new technical material added to IEC 60950-xx. But this could be a timely contribution to IEC 62368-x. 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 (attached) – Submitted to US TAG

   c. Discussion of the following proposals from IEC TC108:
      • 108/477/CDV, IEC 60950-1-A2 Ed 2.0, Information technology equipment - Safety – Part 1: General requirements
      • 108/478A/CDV, IEC 60065 Ed 8.0, Audio, video and similar electronic apparatus – Safety requirements
      • 108/479/CDV, IEC 62368-1 Ed 2.0, Audio/video, information and communication technology equipment – Part 1: Safety requirements

   Joe Randolph: What does this standard cover? It excludes tower and base station. Don: Handles everything from the switching station to the tower. Base stations have to follow the electrical code, unlike central office equipment. Equipment is not “exempt”, it is “not covered”. Committee members were surprised that the local authorities were questioning the listing of the equipment. Equipment may be installed on customer premises, such as roof-tops, so generally needs to be listed. Not many requirements in GR-3171, but a lot of words. A lot of clarification needed. Don will circulate the latest draft for possible comment.

6. Additional agenda items
7. Old Business

a. Smart Grid Issues
   Nothing

b. 380 V DC power systems
   Paul Ng working on this, but nothing to report

c. Lightning/Ground potential rise discussions
   Joe Randolph: A lightning strike can generate a voltage gradient that could exceed several kV in 20 feet. This kind of potential difference can cause failure in equipment that has a current path through it. Equipment with 2 or more ground references falls into this category. Surge protectors won’t necessarily help, and may actually make the problem worse, depending on how they are grounded

   Mick: In Japan they isolate everything. Transformers have reinforced insulation. They have 13 kV insulation between telecom and power circuits. Isolation may be the best strategy, because then grounding isn’t a worry.

d. Solar panel integration

8. Next Meeting

Next meeting – Proposed Wednesday, April 25, 2012.

Respectfully submitted,

Al Martin
Secretary
<table>
<thead>
<tr>
<th>Participant</th>
<th>Employer</th>
<th>Telephone</th>
<th>E-mail</th>
<th>IEEE Member?</th>
<th>PSES Member?</th>
<th>LinkedIn Subgroup</th>
<th>Other Committee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tim Ardley</td>
<td>Adtran</td>
<td>+1-321-254-8118</td>
<td><a href="mailto:tim.ardley@adtran.com">tim.ardley@adtran.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>James Bress</td>
<td>AST Technology Labs</td>
<td>+1-908-582-5978</td>
<td><a href="mailto:jrbress@asttechlabs.com">jrbress@asttechlabs.com</a></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Don Gies</td>
<td>Alcatel-Lucent</td>
<td>+1-930-638-4374</td>
<td><a href="mailto:don.gies@alcatel-lucent.com">don.gies@alcatel-lucent.com</a></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>2</td>
</tr>
<tr>
<td>Phillip Havens</td>
<td>Littelfuse</td>
<td>+1-214-450-9658</td>
<td><a href="mailto:phavens@littelfuse.com">phavens@littelfuse.com</a></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peter Lim</td>
<td>Alpha Technologies</td>
<td>+1-604-638-8687</td>
<td><a href="mailto:peter.lim@alpha.ca">peter.lim@alpha.ca</a></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Carl Linquist</td>
<td>Retired</td>
<td><a href="mailto:fuseman@attglobal.net">fuseman@attglobal.net</a></td>
<td></td>
<td></td>
<td></td>
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<td>2</td>
</tr>
<tr>
<td>Al Martin</td>
<td>Tyco Electronics</td>
<td>+1-650-361-5822</td>
<td><a href="mailto:amartin@tycoelectronics.com">amartin@tycoelectronics.com</a></td>
<td>X</td>
<td>X</td>
<td></td>
<td>2,3,4,5,7</td>
</tr>
<tr>
<td>Mick Maytum</td>
<td>Retired</td>
<td>+1-713-333-2428</td>
<td><a href="mailto:m.j.maytum@ieee.org">m.j.maytum@ieee.org</a></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paul Ng</td>
<td>Lineage Power</td>
<td>+1-972-244-9492</td>
<td><a href="mailto:paul.s.ng@ge.com">paul.s.ng@ge.com</a></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Joe Randolph</td>
<td>Randolph Telecom</td>
<td>+1-781-721-2848</td>
<td><a href="mailto:jpr@randolph-telecom.com">jpr@randolph-telecom.com</a></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dan Roman</td>
<td>Dialogic</td>
<td>+1-973-967-6485</td>
<td><a href="mailto:dan.roman@ieee.org">dan.roman@ieee.org</a></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gary Schrempp</td>
<td>Dell</td>
<td>+1-512-724-3757</td>
<td><a href="mailto:gary_schrempp@dell.com">gary_schrempp@dell.com</a></td>
<td>X</td>
<td>X</td>
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</tr>
<tr>
<td>John Shinn</td>
<td>Retired</td>
<td><a href="mailto:jmshinn@pacbell.net">jmshinn@pacbell.net</a></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Tom Smith</td>
<td>TJS Technical Services</td>
<td>+1-403-612-6664</td>
<td><a href="mailto:tsmith@tjstechnical.com">tsmith@tjstechnical.com</a></td>
<td>X</td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Peter Tarver</td>
<td>Enphase Energy</td>
<td>+1-707-763-4784</td>
<td><a href="mailto:ptarver@enphaseenergy.com">ptarver@enphaseenergy.com</a></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tailey Tung</td>
<td>Network Equipment Technologies</td>
<td>+1-510-574-2385</td>
<td><a href="mailto:tailey_tung@net.com">tailey_tung@net.com</a></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jim Wiese</td>
<td>Adtran</td>
<td>+1-256-963-8431</td>
<td><a href="mailto:jim.wiese@adtran.com">jim.wiese@adtran.com</a></td>
<td>X</td>
<td></td>
<td></td>
<td>2,4</td>
</tr>
<tr>
<td>Steve Zugay</td>
<td></td>
<td>+1-919-850-6219</td>
<td><a href="mailto:szugay@bellsouth.net">szugay@bellsouth.net</a></td>
<td></td>
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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:
IEEE Product Safety Engineering Society
hifi cha, China (Independent Consumer Electronics Professional)
Jeff Whitmire (Manager, Regulatory Compliance at Adtran)