

IEEE PES – Tampa, FL -Meeting Minutes
Working Group on Voltages at Publicly and Privately Accessible
Locations (P1695)
June, 2007

Approximately 40 participants

Chuck DeNardo, Chair, kicked off meeting

Slides on IEEE SA Standards & Inappropriate Topics were discussed
No one had any questions regarding the slides.

Introductions

Meeting minutes from the Winter Technical Meeting in Orlando, Florida.....no comments, approved

Meeting minutes from the Web cast in May 2007.....no comments, approved

Chuck DeNardo provided an overview of the changes on the Policies and Procedures.

- Voting Membership changes discussed
- 4.1 fix using 2 of 4, to read two (2) or four (4). Be consistent.
- Membership Roster – Section 4.2 – Posting of Membership Roster
- Section 5 – Notice of meetings to 30 days.
- Section 5.1 – Quorum – Changed to 25% of the working group or ten (10) members, whichever is greater.
 - Discussions, can credit individuals for attendance at a meeting where there is no quorum.
- Sections 6.3 & 6.4 – Modified for better meaning.
- Motion to approve the Working Group Policies and Procedures as amended was voted on and approved. Will be posted to the Web site soon.
(<http://grouper.ieee.org/groups/td/dist/stray/>)

Detection and Mitigation of Stray Voltage in Underground Distribution System
Aaron Prazan (ConEdison)/David Kalokitis(Power Survey Company)

- Definitions
 - Focused on Contact Voltage
 - Occurring on Underground Distribution
 - Network/Radial
 - Underground Residential
 - Backyard Construction
- Public Safety
- Regulatory Compliance
- Operational Efficiency
- Locating Stray Voltage
 - Nature of the System
 - Mobile Detection
 - Manual Screening Tests
- Mobile Detection Approach
 - Detect /w truck
 - When location is found, investigation phase begins
 - Take voltage readings
 - 500 Ohm Resistor shunt (load resistor)
 - Discussions ensued regarding resistance
 - Fluke makes 3000 Ohm attachment
 - Measurements with & w/o shunt
 - Source can be any object or surface
 - Non-traditional hazards are discovered
 - Fast and Efficient
 - Chuck will look for list of devices that he has tested to make available for the working group.
- Mitigation Strategy: Test, Inspect, Upgrade
 - Multiple system tests
 - Corporate culture change/awareness
 - Building relationships
 - Technical Challenges
 - Handheld tools
 - Is 500 Ohm the right value
 - Choosing good foreign grounds
 - Choose threshold based on hazardous condition
- Conclusions
 - Goals (Public Safety/Regulatory Compliance/Op. Efficiency)
 - Challenges(Many surfaces/third parties and op. burdens)
 - Solution (stand off method)

Chuck provided information on issue in Ontario, Canada. Ontario to regulate “electrical pollution”.

Discussion of Trial Use Guide for Assessing Voltages at Publicly and Privately Accessible Locations (IEEE – P1695). Suggested changes:

- Section 9 – Remove – Discussions around the appropriateness of this section in the document – Move to Annex – Possibly publish a paper/panel session/white paper
- Section 8 - Make an Informative Annex - Section 8 - reference to why existing standards and differences.
- Sections 1-4 OK.
- Section 5 – Needs to be part of the main body.
 - Add Human specifics
 - Add Animal specifics
 - Change 5.1 to Susceptibility
- Possibly changing order of sections 5,6 & 7
- Strike Public & Privately beginning sections 6 and 7.
- Section 6.2 – Weather dependant factors included.
- Section 7.3.3.3 – Change Outdoor and Basement Showers (something w/plumbing)
- New Annex – Ways of Grounding the Electrical Distribution System

If you are interested in chairing a chapter please let Chuck know!!!

Open Business

Next Meeting to be web based and held in November or December, 2007.

Meeting Adjourned