

STLNA April 26, 2016 Meeting Liaison Report to the IEEE Switchgear Committee

The STLNA met on Tuesday, April 27, 2016.

- Attendance:
 - Six members representing five member organizations were present. Two attended via the internet.
 - Three guests attended
- Frank DeCesaro was elected as the STLNA chairman since our last meeting.
 - Frank DeCesaro will represent the STLNA at the STL – Management committee meeting in Budapest, Hungary on May 23rd and 24th.
- Technical Discussions
 - The STLNA members are in the process of summarizing their laboratory practices in performing line and cable charging tests per the following standards:
 - IEC 62271-103, 2011
 - IEEE 1247-2005 (soon to be replaced by C37.30.4)
 - IEEE C37.74-014
 - IEEE C37.100.2 (latest draft version available)
 - A discussion was held regarding voltage escalation that a member incurred from reignition with TRV capacitors in service.
 - The overvoltage was digitally simulated and the actual waveform captured were reviewed.
 - The other labs have not experienced this phenomenon. They have resistance inserted in series with the TRV capacitor
 - The digital simulations also verified this.
 - The topic of ungrounded neutrals in Internal arc fault testing was discussed. This was brought to the STLNA several years ago for discussion because test results appeared to be different when performed at two different labs.
 - The two labs have performed some analysis since this was brought up.
 - The difference in neutral current should not be more than 10% between the two different test setups.
 - There are no enough data points to be able to find a definitive answer for this.
 - The original customer will be contacted to determine if they are willing to share the testing data with Eaton's Belmont Power Test Lab staff to get their opinion. If so, comments will be provided back to the customer.
 - This technical item will now be considered closed. The STLNA can look into this again in the future if needed and more data is available