Meeting Minutes

Meeting called to order by Chair Gary Touryan

Minutes of last meeting approved

Welcome from David Thurston

General Introductions of all Attendees

Next Meeting, was agreed by consensus to convene in Chicago September 19-20, 2012, sponsored by CTA and METRA

Harvey Glickenstein, VTS Vice President Land Transportation, reviewed expense reimbursement procedures.

Bi Yuan Ku, VTS Board Member and Track 7 organizer for Joint Rail Conference (JRC) reported the activities of the JRC and requested to contribute papers for the next JRC on April 15-18, 2013 in Knoxville, Tennessee at the University of Tennessee.

Traction Power Substation Web Site - Gary Touryan encouraged all to check our websites http://grouper.ieee.org/groups/railtransit/tps/index.htm and asked WG Chairs and Vice Chairs to send their updates to our webmaster Steve Bezner for posting.

Balloting – Gary Touryan informed all attendees that they need to be members of IEEE Standards Association in order to vote. He also encouraged all to join IEEE and become members of VTS. Members were encouraged to apply for Senior Membership status in the IEEE if they meet the qualifications. Application can be made online at IEEE.org.

C37.20.8 DC Switchgear Standard, Ted Burse discussed the status of reviewed issues of removing DC Switchgear from C37.20.1.

David Groves suggested:

1. We change the title and scope to include all dc switchgear above 600V and address all standard construction and testing requirements in the standard.
2. Create an Appendix/Annex as an Application Guide for Traction Power Applications
This approach should be acceptable since we will have a dc switchgear standard, application guide for traction and other industries with 600 + V dc switchgear will not be orphaned.

Gary Touryan encouraged all interested to become active members of VTS and PES to be able to contribute to the development off dc switchgear standards.

**P1653.1 Standard Practices and Requirements for Traction Power Rectifier** Transformers, Ben Stell reported that as a result of the balloting was approved with five “disapprovals” which must be addressed. He projected that once the disapprovals are resolved by Vince Paparo the standard should be published by the end of this year.

**PatCom information and rules** - Gary Touryan went over the IEEE Rules and recommendations prior to starting WG sessions

**C37.14 and C37.16 DC Breakers** - Brian Gerzeny WG chair and Chuck Ross WEG Vice Chair reported. Brian attended the PES meeting and presented our position, status and comments. The components needed to update this standard were discussed at this meeting. The assumptions needed to redo C37.16, to incorporate into C37.14, were discussed including the present day MVA substations, the peak multiplier, and system voltage levels. Additionally other topics such as the short time rating were mentioned. It was decided that the working committee would make these decisions along with other proposed changes and revise the C37.14 draft and then present it to our committee.

**P1653.3 Use Guide for Traction Power Systems Modeling** - Mike Dinolfo WG Chair and Mark Pfeiffer WG Vice Chair reported. Modeling guide has been submitted to IEEE for preliminary review; IEEE responded on March 23, 2012 to indicate that the document can be submitted for balloting. Some errors have been discovered in the links from the body of the document to the bibliography references. These will be identified and fixed (task item for Mike Dinolfo). Once they are corrected (anticipated within 2 weeks), the document will be submitted for balloting.

**P1653.5 Recommended Practice for Controlled Traction Power Rectifiers for Traction Power Substation Applications** - Ray Strittmatter WG Chair and Louie Luo WG Vice Chair reported. Louie Luo has drafted recommended Practice for Controlled Traction Power Rectifiers for Traction Power Substation. He discussed TCR’s voltage regulation, output characteristic, output filter and interphase transformer. He also talked briefly about the methods of control in order to achieve a desired output. He mentioned once he received the document from Roger Avery (Roger is helping Louie to review the document) then it will be distributed to the members for their comments within a month or two. Louie said that there is a lot of work ahead of us in order to be ready for balloting in 2013.

**P1653.6 Grounding Standard** - Ethan Kim WG Chair and Paul Forquer WG Vice Chair reported.

1. Discussed the schedule for balloting and project completion with the committee. Balloting is scheduled for June 2012. Project completion is scheduled for January 2013.
2. Document must be submitted to IEEE for mandatory editorial review which takes approximately one month. Final comments must be incorporated by May 2012 prior to balloting in June.
3. Committee performed a line-by-line review up to Section 5.2 – High resistance grounding. Committee was informed that final comments for the remaining portions of the standard must be received by the first week of May to stay on schedule.
New Working Groups Proposed
Two new working groups were proposed. The consensus of the committee is that we should move forward. The subjects of the new working groups are:

- Smart Traction Power substations
- Energy Storage Substations

Any member may serve and contribute to the Working group. We are requesting that transit agency engineers volunteer for either Chair of Vice chair of the working groups.

Thank you to the following Meal Sponsors:

**Breakfast /Lunch**
- **PACS Industries,**  
  **Schaffner- MTC Transformers**

**Dinner**
- **Powell Industries,**  
  **Hawker Siddeley**
<table>
<thead>
<tr>
<th>WORKING GROUPS</th>
<th>CHAIR</th>
<th>VICE CHAIR</th>
<th>Status</th>
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<tbody>
<tr>
<td>P1653.1 Standard Practices and Requirements for Traction Power Rectifier Transformers</td>
<td>Sam Kundu</td>
<td>Vince Paparo</td>
<td>Ben Stell volunteered to facilitate the last steps. Vince Paparo will respond to the balloters questions. Will be published in 2012.</td>
</tr>
<tr>
<td>P1653.2 Standard for Uncontrolled Traction Power Rectifiers for Substation Applications Up to 1500 Volts Nominal Output</td>
<td>Ben Stell</td>
<td>Steve Bezner</td>
<td>Published in 2009.</td>
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<tr>
<td>P1653.3 Use Guide for Traction Power Systems Modeling</td>
<td>Mike Dinolfo</td>
<td>Mark Pfeiffer</td>
<td>In progress scheduled for publication by 2013.</td>
</tr>
<tr>
<td>P1653.4 Standard for dc Traction Power System Field Testing and Acceptance Criteria for System Applications up to 1500 Volts dc Nominal</td>
<td>Jay Sender</td>
<td>Sam Kundu</td>
<td>Ben Stell volunteered to facilitate the last steps and published in 2011.</td>
</tr>
<tr>
<td>P1653.5 Recommended Practice for Controlled Traction Power Rectifiers for Traction Power Substation Applications</td>
<td>Ray Strittmatter</td>
<td>Louie Luo</td>
<td>In process scheduled for publication in 2013.</td>
</tr>
<tr>
<td>P1653.6 Recommended Practice for Grounding in Systems Supplying Direct Current Traction Power</td>
<td>Ethan Kim</td>
<td>Paul Forquer</td>
<td>In process scheduled for publication in January 2013.</td>
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