Meeting Minutes
Heritage Trolley & Streetcar Subcommittee
James Graebner, chair

APTA Rail Conference
Toronto, ONT
Canada
June 5, 2007

The APTA Streetcar and Heritage Trolley Subcommittee met in Toronto, ONT Canada during APTA’s 2007 Rail Conference June 5, 2007. An agenda for the meeting is attached.

Chairman Graebner called the meeting to order at precisely 8:01pm and he had attendees introduce themselves.

Meeting minutes from the San Francisco fall meeting were approved.

Work Item Reports
Track Standards- Martin Schroeder, P.E.

Martin Schroeder provided a detailed review of the Joint AREMA/APTA streetcar track standards development effort. Martin discussed the various work groups that have been established as indicated below. Work on the embedded track standard, led by Bill Moorhead is progressing quickly, while others are taking longer to develop. Martin emphasized the importance of the Streetcar Subcommittee coordinating with the APTA Track group and AREMA in reviewing and developing these standards. Jim Graebner noted the excellent work performed by TRB committee on tight radius curves. A report on such a topic is available on the APTA web site.

<table>
<thead>
<tr>
<th>Work Group Title</th>
<th>Description</th>
<th>Leader</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-ballasted Track</td>
<td>Open track such as direct fixation, LVT and grass track.</td>
<td>TBD</td>
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<tr>
<td>Embedded Track</td>
<td>Track that is paved.</td>
<td>Bill Moorhead</td>
</tr>
<tr>
<td>Corrosion Control</td>
<td>Track to ground resistance and implications of track design.</td>
<td>Ed Wetzel</td>
</tr>
<tr>
<td>Wheel/Rail Interface</td>
<td>Contact geometry and dynamic behavior.</td>
<td>Bob Tuzik</td>
</tr>
<tr>
<td>Sharp Curves</td>
<td>Tight radius curve limitations and implications on restraining rail.</td>
<td>Jim Teeple</td>
</tr>
<tr>
<td>Clearances</td>
<td>Determination of needed</td>
<td>Mike Brown</td>
</tr>
</tbody>
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James Graebner, chair  Tom Hickey, vice-chair  Tim Borchers, secretary  Martin Schroeder, APTA
Meeting Minutes
Streetcar and Heritage Trolley Subcommittee
James Graebner, Chair
Toronto, ONT, Canada June, 2007

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<table>
<thead>
<tr>
<th>Special Track Work</th>
<th>clearances from design and built perspectives.</th>
<th>TBD</th>
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</table>

**OCS Standards Development (Interface with IEEE) – Jim Schantz**
Jim Schantz reported on the effort to write standards for overhead contact systems (OCS) being directed by the IEEE OCS Work Group. Jim noted that the Streetcar and Heritage Trolley Subcommittee is interested in coordinating this work to ensure that systems specified for trolley wire/trolley poles are not overly designed for heritage systems. Jim prepared an introductory piece regarding this concern to help drive the effort, which he made available at the meeting.

**Photography and Security**
Martin noted that we may wish to tailor this introduction into a more formal position paper that highlights added detail and background information. The group seemed to agree with what Jim presented and looked forward to continued coordination with IEEE. Martin further noted that, depending on complexity of the standard, IEEE and APTA may wish to enter into a joint working agreement similar to the MOU established between AREMA and APTA to develop track standards. Martin noted that Jim Schantz, Chris Pagni (IEEE interface) and Cam Beach were leaders of this effort.

**Car Standard Update – John Smatlak**
John Smatlak, primary author of the current APTA Heritage Trolley Vehicle Standard, requested users provide input on the standard, its implementation and potential revisions. Tim Borchers of the Hillsborough Area Regional Transit Authority (HART) has implemented the standard on its new system, the first streetcar in Florida since 1940. The standard applied to Birney cars was found flexible and useful.

**Web Site – Jim Schantz**
Jim Schantz overviewed the revised look of the Streetcar and Heritage Trolley web site. Martin thanked Jim for his great work on such a useful site.

**Work Plan Discussion**
Jim Graebner discussed the work plan of the Subcommittee and suggested that track and OCS standards development would constitute a big part of the group’s effort. Martin asked the group to give considerable thought to the work plan and come to the Annual meeting with further ideas that support the group and contribute to the needs of our industry. Martin agreed that the standards efforts were very important.

**Rail Conference Planning**
Jim Graebner suggested that perhaps two sessions be provided for the 2008 Rail Conference to be held in San Francisco, CA. Certainly a session would focus on general project updates, but that another session focus on streetcar implementation and federal small starts programs. Martin noted that APTA has its conference planning meeting in DC this August.
The meeting was adjourned by Jim Graebner at precisely 9:04am – noting that we needed to allow more meeting time at subsequent meetings. Agreed!

**Actions**

1) Jim Schantz to update introduction regarding OCS trolley pole/line standards
2) All – provide ideas for work plan
3) All – provide ideas for 2008 Rail Conference. Members asked to provide input for Rail Conference Planning meeting at APTA August 7-8 in Washington, DC.

Respectfully submitted:

*Martin P. Schroeder, M.S.M.E., P.E.*

*APTA Sr. Program Manager and Staff Advisor*
American Public Transportation Association  
Streetcar & Heritage Trolley Subcommittee  
James Graebner, chair  

Subcommittee Rail Conference Meeting  

AGENDA  
Tuesday June 5, 2007  
8:00am – 9:00am  
Kenora Room  
Sheraton Centre Toronto  
Toronto, Ontario  
Canada  

<table>
<thead>
<tr>
<th>Time</th>
<th>Item</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am</td>
<td>Call to Order / Welcome / Introductions / Announcements</td>
<td>Jim Graebner, Chair</td>
</tr>
<tr>
<td>8:10 am</td>
<td>Meeting Minutes / APTA Business ...........................................</td>
<td>Martin Schroeder</td>
</tr>
<tr>
<td>8:15 am</td>
<td>Work Item Reports/Discussion</td>
<td></td>
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<tr>
<td>b.</td>
<td>Overhead Collector System Standard – Interface with IEEE ...........</td>
<td>Jim Schantz / Cam Beach / Martin Schroeder</td>
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<td>c.</td>
<td>Car Standard Update ......................................................</td>
<td>John Smatlak</td>
</tr>
<tr>
<td>d.</td>
<td>Car Size Standards – Discussion ........................................</td>
<td>James Graebner</td>
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<tr>
<td>8:50 am</td>
<td>Work Plan Discussion ................................................................</td>
<td>James Graebner</td>
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<tr>
<td>8:55 am</td>
<td>Next Meetings – Preview and Agreement - Actions.................</td>
<td>James Graebner</td>
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