IEEE-OCS Meeting
Los Angeles, CA
1-23/24-2012

Chair: Paul White
Vice Chair: Stephen Norton
Secretary: Andy Gillespie, PE
Recording Secretary: Paul V Campbell
Honorary Secretary: Peter M. Bartek

Monday - January 23, 2012

8:35 am: Call to order;
   Welcoming comments from Paul White and gratitude expressed to the LACMTA for sponsoring the meeting in Los Angeles.
   Safety Briefing issued by Steve Norton in the event of a fire.

Introduction of Mr. Harris Gifford – Director of Operations Support
   Mr. Gifford provide an update on the EXPO Phase 1 opening during the week of January 23rd. EXPO Phase II was awarded as Design – Construct (4 months ago) and the Foothills Extension issued a NTP (2 months ago).

   New Construction Projects coming up were listed as the Greenline Extension, Regional Connector and the Subway Westside Extension.

   A thank you was issued to METCO for the sponsoring the Breakfast.

Review of schedule for Monday and Tuesday’s meetings

Introduction of Attendees

Committee Business
   Minutes were accepted by a motion and approved.

Fall Meeting: was discussed with an opportunity to meet with the IEEE-ASME meeting planned in April at Temple University (Philadelphia, PA). It was decided as a group that we want to have our next meeting in conjunction with the APTA Rail Conference in Dallas, TX in June. The meeting is tentatively scheduled for Wednesday June 6, 2012. An agenda will be issued later on by Paul White

Travel Fund: Send Expense forms along with receipts and boarding passes to Paul White for review and submission to IEEE-VTS for payment.
Dinner: Scheduled at the Sheraton with Cocktails starting at 6:00 with Dinner served at 7:00. Siemens sponsorship and Mr. Chris Hammett providing a presentation on TPS replacement on the Red Line.

Private Donations: A request has been made for donations of $200.00 (Checks made out to the APTA) to cover the remaining money ($2,490.55) required to pay outstanding expense owed from previous meetings.

Presentation Tables will still be available at $500.00 during the Dinner Meetings if so desired.

Internet Update: www.rtbisc.org – Access “OCS” after entering website for our information.


Credit is available for those in attendance working for their PE Certification. Contact Paul White for the information.

Senior Membership (IEEE) is available and requires (3) member sponsorship. If you apply it is your responsibility to follow up.

Open Discussion: Mr. Daniel Steiner (K&M) provided a short presentation on his advocacy group “Trolley Motion” which is a European organization is support of Trolley Bus utilization. Their next planned conference will be held in Germany on October 22-24.

Morning Break 9:50 – 10:05

Open Discussion: Ron Bennell (Denver requested more detail if available on Copper Theft:

Reference an identification system that includes number and logo identifying the maker over a length of line.

SmartWater - is a spray that is applied to the conductor that glows under ultraviolet light and identifies both the material manufacturer and the thief through contact.

Other devices are also at risk with regards to theft of copper line including Lightning Arrestor, Impedance Bonds and Earth Grounds.

Impedance Bonds- possibility of using stainless steel cable (sketch attached).

Boston MBTA - painted their copper impedance bonds to reduce theft and it is working.

Aluminum materials are ranked Number 2 in the thieves’ desired materials
Walt Moskaly (MEC) provided a slide presentation of a copper theft in Salt Lake City.

The committee wants to add this information to the design criteria.

Work Groups Reports:

P1629 – Current Collectors  
Complete for Balloting – Finalizing to answer specific (IEEE) questions for submittal

P1627 – Lightning Arrestor  
Going to have to be re-balloted – finished by end of 2012

P1630 – Structure (Supporting) – Balloted/Approved  
Questions to be answered  
Applied for extension- Word Version (Paul White to finalize and then go back for re-balloting).

P1791 – Terminology (with Jim Dietz)  
Out for balloting- going through the processes- invitation to vote (45 days) Ballot will come after the 45 days to become an IEEE Standard

Live Line Maintenance  
PAR has not been initiated – still in working process- complete in content. PAR should be submitted for Draft Standard

Trolley Wire Standard  
Steve Gilchrist – looking at identification of the conductor wire-  
Agency Marking by size of wore.  
Build the information into the existing standard  
Copper magnesium- work around until content is standardized.  
Standard to be written by next meeting (Brent Booker/Steve Gilchrist

P1833 Catenary Design  
Mosies Ramos issued a report incorporating comments.  
100 page document to be reconciled into a smaller standard.  
Section 8 (Structures) John Schlick  
Section9 (Foundations) Kristy Gerig  
Section 11 (Wiring) Allan Blanchford
Disconnect Switch
Daren Szekely advises making progress with new content available
- building structure and proceeding with refinement
Preview after lunch

Hatch Mott McDonald Presentation (Crenshaw-LAX Transit Corridor Project) – John Schlick
8.4 mile project with two tunnels – one being a 1 mile long.
6 Stations with options
750VDC (500VDC to 950VDC)
10 TPS Substations with (3) deferred for future use when system goes
from 2 car trains to 3 car trains
Use of Conductor Rail inside the tunnels

12:15 Break for Lunch
Lunch sponsored by Mass. Electric Construction Co. Presentation (Pat Vukov)
Overview of the EXPO I (LA to Culver City)

Future Projects they are working on:
LA EXPO II 14 Miles
LA Foothills Extension 11 Miles
DART (22 Miles) including I-3 Project
Salt Lake City 23 Miles
Houston 20 Miles

Copy of the Presentation to be made available along with the distribution of the
Meeting Minutes

Meeting reconvened at 1:10pm

Innotrans- Germany (Matthias Moos) has offered the group or anyone interested
assistance with regards to Lodging, Transportation and Meals during the Show starting
on 9-18-12. He estimates the cost to be between $2000-$3000 plus your round trip
airfare. Anyone interested please contact him directly.

Disconnect Switches: The PAR has not been applied for as of this meeting. We had open
discussion on the topic. Daren and Jerry Woodruff will work together to build the new
standard. Further review by the group will be made available at our next meeting in
Dallas.

Thank you to LACMTA for the hospitality.

Meeting adjourned at 4:00
Tuesday - January 24th 2012

Reconvened the meeting at 8:35 am with breakfast courtesy of ECS Cable.

Thank you once again to Chris Hammett (Siemens) for Dinner and Presentation. Presentation will be made available with the copy of the minutes.

PAT Com Slides

Southwire- Breck Booker
   Cable discussion- marking the cabling- They have a website where they can track the marked wire. This website can be made available to the Transit Industry. Website (Southwire “Proof Positive”)

John Schlick opened a discussion on Conductor Creep;
   Contractor is questioning – Removal of Creepage – pre-stressing the copper wire. The floor is open to anyone who wants to offer advice on pre-stressing wire send your commentary to Paul White for distribution.

9:55 Working Group - Disconnect Switch- finished discussion and review of existing documentation (Daren Szekely)

10:55 to 11:05 Break

Working Group - Disconnect Switches

Lunch: Courtesy of Balfour Beatty Rail Inc. (Jeff Rodgers)
   BBRI provided a presentation on Projects (Infrastructure, Communications, Rail and OCS) in Los Angeles and other Western Cities. Presentation to be made available with the distribution of the meeting minutes

LACMTA: Tour of Red Line TPS Station, Communications and Signal Center.

Adjournd the Meeting at 4:00 with a thank you to LACMTA for their hospitality.