The meeting was opened at 4:02 pm on July 22, 2008 in Room 335 of the David Lawrence Convention Center. The Power Quality Subcommittee website is

http://grouper.ieee.org/groups/td/pq

**Introductions**

Chair: Mark Halpin  
Vice-Chair: Dan Sabin  
Secretary: Tim Unruh

**Previous Meeting Minutes**

A motion was made to approve the minutes by Rich Bingham. A second to approve the minutes was made by Randy Collins. The motion carried.

**Power Quality Subcommittee Membership**

The membership list was presented and reviewed. The list contains guest as well as member listings. At the time of the meeting, the list contained 16 members, out of a total roster of 40.

**Officer Election**

David Hansen moved, Alex Emanuel seconded to nominate Dan Sabin and Timothy D. Unruh as the Chair and Vice-Chair positions, respectively. Rich Bingham was nominated as the new incoming Secretary. No discussion was held, and the motion carried. Dan Sabin would chair and run the meeting at the next meeting in Orlando.

**Upcoming Panel Sessions and Tutorials**

Dennis Hansen passed out the panel session plan for the next two meetings. Wilsun Xu will be taking over the role of organizing the upcoming panel sessions as part of his role of Chair of the PQ Activities Working Group. We recently held 3 panels at the T&D show in Chicago in April, 2008. The panel sessions were 1159 Status and Update, PQ Solutions, and Preventing Electrical Pollution. It was indicated that 1159 Status had about 50 people, PQ solutions had about 70 people, and Preventing Electrical Pollution had about 40-50 people.

Upcoming panel sessions and sessions held at this meeting are included in the minutes in the attachments. The attachment is the summary provided by Dennis Hansen at the meeting. Some further discussion was held regarding future panel sessions.

**Paper Reviews**

Dan Sabin indicated that Manuscript Central, the IEEE paper review website will be updated soon. Dan and Bill Moncrief received training on the new system. Dan thought that it might be easier for users to access. Bill stated that the big change is with people that work with his assigned papers. You will receive an invite, and then you must click to accept the review. Dan has been doing this manually, Bill has been picking reviewers. Essentially, the process for receiving a paper to review will be slightly different.
Organization Chart Review
The organization chart for the Power Quality Subcommittee was reviewed by the group. A copy of the updated chart is attached to these minutes.

PQ Activities
Wilsun Xu reported on some actions taken by the PQ Activities Working Group. He would like to get the web site updated with more information. He would like to have a grid that shows the various standards from IEEE and IEC and what the statuses of the standards are.

Meeting Schedule Update
The meeting schedule was discussed. Mark gave some reasons behind the shortened schedule for the Pittsburgh meetings. In Orlando, Tim Unruh will send an email to the chairs, and ask them for a time requirement and commitment for holding a meeting. We will try to schedule around the Stray Voltage (Church DeNardo), Smart Grid (Erich Gunther), and Reliability Working Group (Chuck McDaniel) when forming the schedule for January 2009.

The next meeting of the subcommittee will be with the IEEE/PES Technical meeting in Orlando, FL, January 12-14, 2008.

The meeting was adjourned at 4:53 pm.

Attendees
The following persons attended the meeting on July 22, 2008.

Arneson, Art
Bingham, Rich
Burch, Reuben
Chang, Gary
Collins, Randy
Emanuel, Alexander
Gunther, Erich
Laughner, Theo
Little, Kevin
Luprek, David
Mantooth, Alan
Octmeyer, Tom
Page, Marty
Philips, Dean
Saint, Bob
Sedziol, Ken
Testa, Alfredo
Unruh, Timothy
Wikston, James
Wong, Brian
Xu, Wilsun
IEEE PES T&D Power Quality Subcommittee  
Panel Session and Tutorial Plan

Last revised: 18 Jul 2008

This revision includes the scheduling confirmation of the EAF Modeling and 519 Misapplications panels for Pittsburgh.

Panels at a Glance

<table>
<thead>
<tr>
<th>Priority</th>
<th>Upcoming Meetings</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3</td>
</tr>
<tr>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td>C</td>
<td>5</td>
</tr>
<tr>
<td>D</td>
<td>XX</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Status Codes</th>
<th>Prel</th>
<th>Preliminary idea; no chair yet found.</th>
<th>Italics</th>
<th>PQ Subcom. has approved panel.</th>
<th>Conf</th>
<th>TCPC has confirmed panel.</th>
<th>Schd</th>
<th>Room and time have been scheduled.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chr</td>
<td>Chair found and agreed to organize.</td>
<td>Sub</td>
<td>Panel has been submitted to TCPC.</td>
<td>Sched</td>
<td>Room and time have been scheduled.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Panel and Tutorial Descriptions and Ideas with Chairs

(Numbers correspond to those in the table above.)

1. Common errors and misconceptions in the application of IEEE 519  
   Chair – Paulo Ribeiro

2. Interharmonics Case Studies and TD = THD + TID  
   Chair—Erich Gunther

   Co-chairs Charles Perry & Randy Collins

   Chair – Dave Mueller & Dan Sabin

5. Preventing Electrical Pollution from Entering the Power System.  
   Chair – Dennis Hansen

For questions or comments about this plan contact Dennis Hansen  
dennis.hansen@pacificorp.com  
801-220-4816
6. The Economics of PQ—tie in to political-legal?  
Chair—Mark McGranaghan?

7. Integration of Monitoring Data  
Chair—Mark McGranaghan?

8. Experience with PQ Indices.  
Chair—Rao Thallam

9. PQ in Data Centers  
Chair—Mike Lowenstein

10. Measurement Techniques and Modeling Issues of Electric Arc Furnaces  
Chair—Gary Chang

11. PQ Considerations for Applying Capacitors in Substations  
Chair—Erich Gunther

12. Measuring Harmonics on HV and EHV Systems  
Chair—Randy Horton?

13. Advanced Applications for PQ Monitoring  
Chair—Dan Sabin

14. Flicker and harmonics measurement issues and experience  
Chair—?

15. Cost of Flicker  
Chair—Reuben Burch

Tutorials

T1. Understanding IEEE 1453 Flicker  
Chair—Reuben Burch