

# IEEE Power Quality Subcommittee Meeting Minutes

July 22, 2008

Pittsburgh, PA

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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

| Priority | Upcoming Meetings             |            |      |                                 |            |      |                                |            |      |                              |             |      |     |            |      |
|----------|-------------------------------|------------|------|---------------------------------|------------|------|--------------------------------|------------|------|------------------------------|-------------|------|-----|------------|------|
|          | T&D 2008<br>Apr 21-24 Chicago |            |      | SM 2008<br>Jul 20-24 Pittsburgh |            |      | PSCE 2009<br>Mar 15-18 Seattle |            |      | SM 2009<br>Jul 26-30 Calgary |             |      |     |            |      |
|          | Num                           | Designator | Stat | Num                             | Designator | Stat | Num                            | Designator | Stat | Num                          | Designator  | Stat | Num | Designator | Stat |
| A        | 3                             | 1159       | Done | 10                              | EAF Model  | Schd |                                |            |      | T1                           | Flicker Tut | Chr  |     |            |      |
| B        | 4                             | PQ Sol'ns  | Done | 1                               | 519 MisApp | Schd |                                |            |      | 12                           | Measure HV  | Prel |     |            |      |
| C        | 5                             | Prevention | Done | 2                               | Interharm  | Sub  |                                |            |      |                              |             |      |     |            |      |
| D        |                               |            |      | XX                              | XXXXXX     | XX   |                                |            |      | XX                           | XXXXXX      | XX   |     |            |      |

|                     |      |  |                |  |      |  |
|---------------------|------|--|----------------|--|------|--|
| <b>Status Codes</b> | Prel | <b>Preliminary</b> idea; no chair yet found. | <i>Italics</i> | PQ Subcom. has <b>approved</b> panel.    | Conf | TCPC has <b>confirmed</b> panel.           |
|                     | Chr  | <b>Chair</b> found and agreed to organize.   | Sub            | Panel has been <b>submitted</b> to TCPC. | Schd | Room and time have been <b>scheduled</b> . |

### Panel and Tutorial Descriptions and Ideas with Chairs

(Numbers correspond to those in the table above.)

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|--|---|
| 1. Common <b>errors</b> and misconceptions in the application of IEEE <b>519</b> | Chair – Paulo Ribeiro                   |
| 2. <b>Interharmonics</b> Case Studies and TD = THD + TID                         | Chair—Erich Gunther                     |
| 3. Monitoring and Characterization of Power Quality <b>1159 &amp; 1159.1</b> .   | Co-chairs Charles Perry & Randy Collins |
| 4. <b>PQ Solutions</b> – both Supply-side and Utilization-side.                  | Chair – Dave Mueller & Dan Sabin        |
| 5. <b>Preventing Electrical Pollution</b> from Entering the Power System.        | Chair – Dennis Hansen                   |

For questions or comments about this plan contact Dennis Hansen

[dennis.hansen@pacificorp.com](mailto:dennis.hansen@pacificorp.com)  
801-220-4816



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|--|-------------------------|
| 6. The <b>Economics</b> of <b>PQ</b> —tie in to political-legal?                         | Chair—Mark McGranaghan? |
| 7. <b>Integration</b> of Monitoring Data   | Chair—Mark McGranaghan? |
| 8. Experience with <b>PQ Indices</b> .   | Chair—Rao Thallam       |
| 9. PQ in <b>Data Centers</b>   | Chair—Mike Lowenstein   |
| 10. Measurement Techniques and <b>Modeling</b> Issues<br>of <b>Electric Arc Furnaces</b> | Chair—Gary Chang        |
| 11. PQ Considerations for Applying <b>Capacitors</b> in <b>Substations</b>               | Chair—Erich Gunther     |
| 12. <b>Measuring</b> Harmonics on <b>HV</b> and EHV Systems                              | Chair—Randy Horton?     |
| 13. <b>Advanced</b> Applications for PQ <b>Monitoring</b>                                | Chair—Dan Sabin         |
| 14. Flicker and harmonics <b>measurement</b> issues and experience                       | Chair—?                 |
| 15. <b>Cost</b> of <b>Flicker</b>  | Chair—Reuben Burch      |

## Tutorials

- |  |                    |
|--|--------------------|
| T1. Understanding IEEE 1453 <b>Flicker</b> | Chair—Reuben Burch |
|--|--------------------|