

**Minutes**  
**Power Quality Subcommittee Meeting**  
**July 29, 2015 Denver, Colorado, USA**

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**Meeting Opening – Introductions – Rich Bingham**

**Approval of Previous Meeting Minutes – Rich Bingham**

The secretary presented the minutes from the meeting. Minutes were approved.

**Status of PQ Subcommittee Documents**

The status of each Working Group and/or Task Force that meets was discussed. The status of the remaining officer vacancies were discussed, along with vote to approve new officers. Update of websites (or lack thereof) was discussed. Kevin Kittredge will be available to help WG's update their page.

**Monitoring Electric Power Working Group - Steve Johnston**

1159 –2009: Monitoring Electric Power Quality, : Steve Johnston – new secretary, presentation, comments, 2 hr JTCM

1159.3 –2003 Transferring Power Quality Data, Dan Sabin – revision project, paper at CIRED, approved new ID's for next draft, 1 hr JTCM

**Harmonics Working Group - Erich Gunther**

519 –2014 Harmonic Control in Power Systems, Mark Halpin: PAR to be submitted, 2016 GM Panel Session request, 3 hr JTCM for 519 and 519.1

519.1 Applying Harmonic Limits on Power Systems : Mark Halpin – PAR to be submitted

Time Varying Probabilistics Aspects of Harmonics, Paulo Ribeiro, (Rich reported) 2016 GM Panel Session request. no JTCM

Harmonics Modeling and Simulation -- Roberto Langella, Panel session presented 2015 GM, 2016 GM Panel Session request. no JTCM

TF on Impacts of Higher order harmonics -- Steve Tatum – did not meet, in suspension

**Voltage Quality Working Group - Theo Laughner**

1250 –2011 Voltage Quality, Theo Laughner: may change draft title, working on next draft, 1 hr JTCM

1453-2011 Flicker, Ken Sedziol; 1453-2015 should be published around November, Presentation made at 2015 GM Measurements Panel Session, new chair Harish Sharma and new Secretary Joe Grappe in January, 2016. GM Panel Session request, question where to present flicker specific papers. JTCM 1 hr

1453.1 –2012: Flicker Limits, Ken Sedziol: Will be replaced by 1453-2015.

1564-2014- Voltage Sag Indices, Francisc Zavoda – ideas for next version, presentation from Dan – JTCM 1 hr

### **PQ Solutions Working Group - Dave Mueller**

Did not meet

### **PQ Issues with Grid Modernization Technologies Working Group**

xxxxx, : Dave Mueller, Panel session at 2015 GM – very successful, asking for T&D Panel session in 2016 and GM in 2017. JTCM -1 hr

### **Power Quality Disturbance Analytics Working Group**

xxxxx: Wilsun Xu, Panel Session GM 2015, Requested Panel Session GM 2016

### **SCC-22 Update - Theo Laughner:**

Xxxxx: Theo Laughner - spreadsheet of standards, table of organization contacts  
JTCM – 1 hr

### **New Officers Needed Summary:**

PQ Subcommittee Secretary – Matt Norwalk

### **Panel Sessions Update from General Meeting 2015–**

1. 1564 – Dan Sabin
2. Harmonics Modeling & Simulation TF: High Frequency (2-150kHz) Harmonics in Distribution Systems – Roberto Langella
3. Analytics TF: Hardware Platforms for PQ Data Analytics – Tom Cooke
4. PQ Grid Modernization WG – Dave Mueller

### **Proposed 2016 T&D and General Meeting Panel session:**

1. Insights into Uses/Mis-uses of the 2014 Revision of IEEE-519 Harmonic Control in Power Systems (How to properly use IEEE 519 Harmonic Control in Power Systems)
  - a. Chair and overview of application at the PCC -- Mark Halpin
  - b. Measurement techniques and parameters for harmonics/interharmonics - Rich Bingham
  - c. Applying and Misapplying Harmonic Limits, including Wind Generation Plants -- Dave Mueller
  - d. The Why and How of 95&99 percentiles - Math Bollen
  - e. Other Informative Topics, including interharmonics -- Erich Gunther
- 2.

### **Other Business –**

1. Reviewed Guide on *How Things Work in IEEE PQ groups* from Erin, still being revised, submit comments. Sharepoint site from Erich.
2. Transient Characterization - Math Bollen, Present in JTCM
3. A Guide to Understanding Power Quality Measurements: A group led by Rich Bingham to bring draft outline to JTCM.
4. Requirements for PQ Capabilities in Smart Meters - Tom Cooke
5. Guide on what are effects from PQ Phenomena on Equipment - Scott Peele – See how 1250 pans out.

6. Dates in documents
7. WG for Susceptibility of equipment to different types of disturbances

**Vote on Officers beginning January 1, 2016**

**Secretary – Matt Norwalk**

**Vice Chair – Ken Sedziol**

**Chair – Gary Chang**

**Voted for unanimously**