IEEE Power Quality Subcommittee Meeting

Dan Sabin
d.sabin@ieee.org

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IEEE Power Quality Subcommittee

IEEE

IEEE Power & Energy Society

– IEEE Transmission and Distribution Committee

• IEEE Power Quality Subcommittee
  – Working Group on Monitoring Power Quality
  – Working Group on Voltage Quality
  – Working Group on Harmonics
  – Working Group on Power Quality Solutions
  – Working Group on Power Quality Activities
IEEE Power Quality Subcommittee

• Chair: Dan Sabin
• Vice Chair: Tim Unruh
• Secretary: Rich Bingham

• Web Site: http://grouper.ieee.org/groups/td/pq/
Attendee Introductions

- Include mention of which working groups or task forces for which you are an officer
Officer Rotation

• The current officers have been in place for the past three years, so it is time to rotate them

• Proposed New Officers
  – Chair: Tim Unruh
  – Vice Chair: Rich Bingham
  – Secretary: TBD
Working Group Status

Working Group on Harmonics

- *IEEE 519 Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems*
  - Working to have a vote and/or extension to IEEE 519 before December 31
- Writing a tutorial paper with a survey of spectral, time-frequency and probabilistic techniques for dealing with harmonics
- Proposing to Write Tutorial Paper on Aggregation of Harmonics Caused by Wind and PV Systems
- Planning to begin IEEE P519.1 Application Guide balloting in 2012
Working Group Status

Working Group on Voltage Quality

• IEEE 1250 Guide for Service to Equipment Sensitive to Momentary Voltage Disturbances
  – The guide was approved this spring. Presenting a summary of the standard during a Wednesday afternoon panel session.

• Discussed taking on a “black box” testing protocol for retrofit energy savings devices.

• IEEE P1564 Guide for Voltage Sag Indices
  – Formed ballot pool and will submit most recent draft for MET by IEEE Standards next week. Expects first ballot within months.
Working Group Status

Working Group on Voltage Quality

- *IEEE P1453 Recommended Practice for Measurement and Limits of Voltage Flicker on AC Power Systems*
  - Administratively withdrawn about 18 months ago via oversight, but was since balloted twice is waiting for approval by IEEE Standards. Based on 61000-4-15 Revision 2.

- Starting a new project (P1453.1) to adopt IEC 61000-3-7 as an IEEE standard with balloting expected to begin before end of year.

- Planning a new project (P1453.2), which would be an Application Guide with start in 2012
Working Group Status

Working Group on Monitoring Electric Power Quality

• *IEEE 1159 Recommended Practice for Monitoring Electric Power Quality*

• Discussing whether next steps will be a revision to IEEE Std. 1159-2009 or to reform IEEE P1159.1

• Will focus on a white paper on power quality phenomena not discussed already in Std 1159
Working Group Status

Working Group on Power Quality Solutions

• *IEEE P1409 Guide for the Application of Power Electronics for Power Quality Improvement on Distribution Systems Rated 1 kV Through 38 kV*
  – Completed first ballot and addressed negative votes at this meeting
  – Expects to reballot within weeks.

• *IEEE 1346 Recommended Practice for Evaluating Electric Power System Compatibility with Electronic Process Equipment*
  – Withdrawn and no action yet within working group to write a replacement standard
Working Group Status

Working Group on Power Quality Activities

• Panel Sessions for GM 2012
  – “Alternative Uses of PQ Data” chaired tentatively by Wilsun Xu
  – “Theories, Experiences, and Practice with Waveform Distortion Assessment” chaired by Gary Chang and Roberto Langella
Working Group Status

Working Group on ICHQP

• International Conference on Harmonics and Quality of Power

• Planning next conference for Hong Kong from June 17-20, 2012
Subcommittee Paper Reviews for IEEE Transactions on Power Delivery

• Bill Moncrief
• Wilsun Xu
Next Meeting of Subcommittee and Working Groups

- January 10-12, 2012
- Orange County, California, USA