

IEEE Power Quality Subcommittee  
**Power Quality Data Analytics Working Group**

Minutes for WG Meeting in PES GM 2015

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Time: 4pm - 5pm  
Date: Monday, July 27, 2015  
Location: Room Colorado, Conference Hotel

### **1. Approval of 2014 GM meeting minutes**

The minutes of 2014 GM were approved without change.

### **2. Report to members**

- Tom Cooke, from EPRI, reported about the WG Panel Session on “Experiences and System Requirements for Power Quality Data Analytics” to be held on Tuesday, 28 July, listing the presenters and topics. Note added after the meeting: The panel session was conducted as planned with five presentations and an average audience of 20 to 30 attendees.
- Prof. Wilsun Xu, from University of Alberta, reported the following points about the PQ Subcommittee meeting held during the Joint Technical Committee Meeting in Los Angeles on January 2015:
  - Prof. Xu during the JTCM simply reported the WG plans to the PQ Subcommittee, since there was no WG activity;
  - The T&D Committee reported a new policy about how to hold active participation on Working Groups, Task Forces, and Subcommittees: if one misses two consecutive meetings, he/she is no longer considered an active member. Rich Bingham, from Dranetz, explained that it is possible to be active by participating in the discussions by email, for example, even if one missed two consecutive meetings.

### **3. Activity report**

- Prof. Xu did a presentation about the report "Signatures of Equipment Failures" submitted to the WG and available in the WG website. The purposes of the submitted report were: establish an example of focal point for WG's activities; provide a preliminary draft for an eventual WG document, support the research and development in PQ data analytics and attract contributions to WG's efforts. After the presentation, a long discussion was initiated about topics such as: PQ monitors should include internal analytics to detect and analyze such failures; what type of data is of interest for the WG; the need for the algorithm developments for PQ data analytics;

how to condensing data from waveforms; the usage of trigger to capture events of interest; what are the best practice for PQ data analytics, the usage of data from IEDs.

#### **4. Discussions and short-term activities**

- It was decided that the submitted report "Signatures of Equipment Failures" will be used as a draft for a first WG document on this topic. Prof. Walimir Freitas, from University of Campinas, will lead this initiative.
- It was approved a Panel Session to be held in GM 2016 on "Electrical Signatures of Power Equipment Failures" chaired by Prof. Xu.

#### **5. Adjournment**

- The meeting was adjourned at approximately 05:00 pm.

#### **Attendees:**

The following people attended the meeting as WG members:

Bingham, Rich	Dranetz
Chang, Gary	National Chung Cheng University
Cooke, Thomas	EPRI
Freitas, Walimir	University of Campinas
Grappe, Joseph	Duke Energy
Hopkins, Terri	Duke Energy
Howe,Bill	EPRI
Johnston, Steven	Eaton
Kittredge, Kevin	Electrotek Concepts
Laughner, Theo	TVA
LazaroIU, Cristian	University Politechnica of Bucharest
Li, Chester	Hydro One
Meyer, Jan	Technische Univ/Dresden
Miller, Carl	EPRI
Norwalk, Matt	Southern California Edison
Onyewuchi, Ureena	Corning
Peele, Scott	Duke Energy
Sabin, Daniel	Electrotek Concepts
Santoso, Surya	Univ of Texas Austin
Tao, Shun	NCEPU CHN
Tatum, Steve	Southern Co./AlabamaPower
Tremblay, Mario	Hydro Quebec
Wizachkaemper, Jeff	Texas A&M
Xu, Wilsun	University of Alberta

Zavoda, Francisc  
Zech, Dave

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Duke Energy