

**IEEE 1250 Working Group  
Meeting Minutes  
IEEE PES Joint Technical Meetings, Orlando Florida  
January 9, 2007 0800AM-1000AM Eastern Time**

**Attendees:**

1. Rich Bingham, Dranetz-BMI
2. Reuben Burch, Alabama Power
3. Russ Ehrlich, Pepco Holdings Inc., **WG Vice-Chair**
4. Dennis Hansen, Pacificorp, **WG Chair**
5. Fred Hensley, Magnum Instruments, **WG Secretary**
6. Paul Hodges, Tampa Electric Company
7. John Kennedy, Georgia Power
8. Mark McGranaghan, EPRI
9. Bill Moncrief, Hood Patterson Power
10. Dave Mueller, Electrotek
11. Marty Page, Georgia Power
12. Karen Pedersen, IEEE Standards
13. Dan Sabin, EPRI
14. Bob Saint, National Rural Electric Cooperative Association
15. Ken Sedziol, Duke Energy
16. Tin Unruh, Custom Energy

**AGENDA ITEM A (Call to Order, Introductions, Housekeeping)**

1. Meeting called to order by working group chair Dennis Hansen, and hosted at the Wyndham Resort hotel in Orlando, Florida. The meeting structure utilized the agenda produced and distributed in advance.
2. Rich Bingham made an informational announcement that Dranetz-BMI has officially been acquired by German company "GMC" (no relation to General Motors).
3. Mark McGranaghan made an informational announcement that EPRI Solutions has been merged into EPRI.
4. After attendee introductions were completed, Dennis Hansen reviewed the two relevant IEEE slides regarding patent policy and inappropriate discussion topics.

**AGENDA ITEM B (Minutes from Previous Meeting)**

1. Minutes from the September 19<sup>th</sup> web call meeting were reviewed and approved by the attendee WG members.

**AGENDA ITEM C (Progress Reports on Web-Based Voltage Quality Practices Questionnaire)**

1. Fred Hensley provided a preliminary introduction to the voltage quality web site (<http://www.voltagequality.org>) containing a sample online questionnaire. The voltage quality web site will host several open source tools available for use by

- the working group, including a project management utility (<http://www.voltagequality.org/projects>).
2. A suggestion was made to put a note in the questionnaire ensuring that only the fully qualified respondents answer the questions.
  3. The questionnaire is expected to be ready for release in February.

#### **AGENDA ITEM D ( IEEE 1250-D2 progress)**

1. Russ Ehrlich noted that none of the revised clauses were submitted from the clause chairs by October 18<sup>th</sup>. Since then the updated clause 4 was submitted from John Kennedy.
2. Russ raised a question concerning potential copyright issues with the IEC. Mark McGranaghan indicated it should not be a problem if used as a normative reference.
3. Clause 4 Review:
  - References updated
  - Content reorganized for consistency
  - Reuben Birch sits on the ANSI committee, and can confirm whether there are any potential copyright issues with the ANSI C84.1.
  - IEEE 519 references need to be updated for consistency with the pending standard.
  - Dennis Hansen pointed out there are different ways of measuring imbalance/unbalance. Dennis would like the standard to reference the symmetrical components method, and to ensure that PQ meters purchased are consistent with expected method of measurement.
  - A suggestion was made to insert the IEEE 1346 charts, as applicable, on the distribution system voltages.
  - Section 4.3 – Should the term “Momentary Disturbances” be used, or just “Voltage Disturbances”?
  - Dennis raised the question of using “Outage” versus “Interruption”. To be consistent with the IEEE 1366, we should use “Interruption”.
  - Rich Bingham can provide a waveform chart with displaying transient, sag, and interruption all within 12 cycles.
4. Clause 5 Discussion
  - Mark McGranaghan pointed out that the European standards are in flux with potential changes per Norway. Therefore, it may be best to stay with the steady-state data.
  - Dennis Hansen noted that there should be a reference also to CBEMA/ITIC and SEMI-F47.
  - Mark McGranaghan will be ready to discuss and review clause 5 in detail during the upcoming meeting in Tampa this June.
5. Clause 6 Discussion:
  - Russ will check the status of Clause 6 with Randy Collins, and with Alex McEachern regarding inclusion of 61000.4-30 information..
6. Clause 7 Discussion:
  - Dave Mueller proposes a new category for “Customer Power Medium Voltage Solutions” like the IEEE 1409.

- Dave Mueller proposes to add some new sections for clause 7.
- Dave can create a new draft in about 6-8 weeks, and ready for submittal to Russ Ehrlich . We will focus on reviewing this section in detail during the upcoming web conference in April.

**AGENDA ITEM E (Brainstorming Session to Speed Up Drafting Process)**

1. This agenda item was skipped for lack of time.

**AGENDA ITEM F (Action Items and Next Meeting)**

1. Fred Hensley to have the online questionnaire ready for evaluation in a few weeks, and to begin real world input in February.
2. Reuben Birch to confirm with ANSI committee that there are no copyright issues with the C84.1.
3. Rich Bingham to provide a waveform chart with transient, sag, and interruption within 12 cycles.
4. Russ Ehrlich to email out revision two of 1250 draft.
5. Mark McGranaghan to be ready to discuss and review clause 5 during the upcoming meeting in Tampa, Florida this June.
6. Russ Ehrlich to check with Randy Collins and Alex McEachern.
7. Dave Mueller to have an updated clause 7 draft ready and submitted to Russ Ehrlich within 6-8 weeks. This same draft will be reviewed in detail during the upcoming web conference in April.
8. The next meeting will be a web conference taking place on Tuesday, April 10<sup>th</sup>, 2007, from 1100-1200 Eastern Time or 0800-0900 Pacific Time. This web conference will focus on clause seven of the latest 1250 draft.
9. The next following meeting will take place in Tampa, Florida in June, 2007.

**AGENDA ITEM G (Roundtable on Voltage Quality Issues/Events)**

1. This agenda item was skipped for lack of time.

The meeting was adjourned at approximately 10:00 AM ET.