



Promoting Community Worldwide

**Voltage Quality (IEEE 1250) Working Group Meeting Minutes
Power Engineering Society General Meeting
Lawrence Convention Center Room 335
Pittsburgh, Pennsylvania
July 22, 2008, 2:00 – 3:00 PM Eastern Time**

Attendees:

1. Art Ameson, Snohomish County PUD
2. Rich Bingham, Dranetz-BMI
3. Reuben Burch, Alabama Power
4. Gary Chang, National Chung Chen University
5. Randy Collins, Clemson University
6. Mark Halpin, Auburn University
7. Dennis Hansen, Pacificorp, **WG Chair**
8. Kevin Little, Duke Energy
9. Mike Lowenstein, Consultant
10. David Luprek, Power Monitors Inc.
11. Dave Mueller, Electrotek
12. Marty Page, Georgia Power
13. Dean Philips, First Energy Group
12. Paulo Ribeiro, Calvin College
13. Ken Sedziol, Duke Energy
16. Tim Unruh, Custom Energy
17. James Wikston, Hatch
18. Charlie Williams, S&C
19. Brian Wong, PG&E

Chairman Dennis Hansen called the meeting to order at 1405. He circulated a sign-up sheet.

The 1250 document is the gateway to PQ in IEEE. We had a conference call in April, not enough participation to call it a full meeting.

Notching is still covered in the new IEEE Std 519, we should point to it. (It's in Annex A.)

Bob Saint got us a space in the NRECA flyer related to our questionnaire. Fred Hensley says we have 18 responses. 15 from NRECA and 3 from IEEE website. This survey of utilities will let utilities tell us what

standards they use for what purpose. (Planning, contracts, etc.) Dennis would like to get more input, suggestions welcome. Rich says typical response to surveys is 4%.

Dennis reviewed the minutes of the meeting from San Antonio. Draft 3 of the document contains the changes from that meeting. The minutes were approved as submitted.

The meeting shifted to the clauses of the document. Dennis noted that the scope of the document calls for things that we don't have in the document. We should identify factors that influence voltage quality and we should identify problem mitigation techniques. We should have a discussion about power systems as an introduction or starting point.

Dennis then reviewed the clauses and chapter chairs. Dennis recalled that the earlier 1250 focused on the utilization side and this version should add much T&D information, rounding out the approach.

Marty likes the new arrangement, Rich agrees. Dave Mueller questions the audience – utility engineers or general audience including end users.

One change suggested: ...voltage quality FOR end users. Shift the solution away from the point of use.

Other suggestions: COMPATIBILITY of power systems with end use loads.

Be careful with statements like "in Europe, Harmonics are higher but cause no problems..."

Dave has outlined parts of his clause to cover utility problem mitigation, (animal guards, etc.) but isn't really comfortable making those statements in the document. Discussion about system performance led to decision to keep the wording as is.

Moving on to the text of the document, Draft 3. Marty notes that the figure on page 10 is copyrighted, no work yet to get the right to use. Section 6 tries to follow the order of section 5 in order to provide continuity.

Clause 5 is long (28 pages) so some normative material might be moved to an annex.

Clause 6 follows the same order of concerns introduced in clause 5.

Susceptibility and improving voltage quality (clauses 7 and 8) were covered last time.

Dennis suggested a time for the next webcall of October 7, Tuesday at 8, 9, 10, 11 AM for one hour.

Focus on clause 5, splitting part to an annex.

The meeting was adjourned at 1500.