

**Voltage Quality (IEEE 1250) Working Group
Teleconference Meeting Minutes
October 21, 2008, 8 am Pacific, 11 am Eastern**

Attendees:

1. Russ Ehrlich, Pepco Holdings, Inc., **WG Vice-Chair**
2. Dennis Hansen, Pacificorp, **WG Chair**
3. John Kennedy, Southern Company
4. Marty Page, Southern Company
5. Mark McGranaghan, EPRI
6. Tim Unruh, Custom energy
7. Bill Moncrief, EnerNex

Meeting called to order by Dennis Hansen, hosted using the PacifiCorp teleconference system.

Old Business:

Minutes from the July 22nd meeting in Pittsburgh were reviewed and approved by the attendees.

New Business:

Rev 3 of the P1250 document was used as a basis for discussion.

Since in Pittsburgh we discussed splitting section 5 (Identifying VQ) into simple and complex sections, we reviewed section 5 with that in mind. We concluded that section 5 flowed so well and was so well written that splitting it would do more harm than good. So we decided to leave it as is with the following changes.

1. Change the ANSI C84.1 reference in 5.2.3.1 to 3%, but leave the recommended limit at 2%, consistent with EN 50160 limit.
2. Delete the first line recommending a compromise 6% THD limit in 5.2.4.3. This section to be rewritten as per Marty Page's suggestion to not recommend limits at all, but just discuss them.
3. Add a sentence explaining lamp gain to 5.2.5.
4. More clearly define unusual conditions in voltage regulation portion of Table 4 of 5.2.6.

Next we discussed integrating section 8.1 (improving VQ in the utility system) into section 6 (factors affecting VQ in the utility system). This idea was accepted. Section 8 will no longer discuss utility-side VQ improvements.

After next January's meeting, Russ and Dennis will begin integrating all the sections together in one voice.

Mark said that Bill Howe of EPRI will begin attending this working group in Mark's place, beginning at our next meeting, which will be in Atlanta in January. Tim Unruh will let us know our time slot. Dennis asked for two hours.

Action Items (all to be complete by one week before our January meeting in Atlanta):

1. Mark to make changes in section 5.
2. Dennis to discuss section 8.1's integration into section 6 with Dave Mueller.
3. John and Marty to make the integration of section 8.1 into section 6.
4. Dave to flesh out the balance of section 8.
5. Dennis to make more requests of persons and organizations for sending out invitations to fill in the working group's survey.

Adjourned one hour after starting.

Right after the meeting Bill suggested, in an email, we address the color issue in the tolerance diagram (Fig. 15) of section 5.3.2 and to review the document for other places where this might be an issue. Can we somehow make this figure work for monochromatic printers?

Minutes recorded by Dennis Hansen