

**IEEE PES Substations Meeting
Kansas City (May 20, 2009)
Working Group D-7**

Summary

The meeting began with introductions. An attendance list was passed around the room. There were 21 members and 14 guests in attendance.

Members In Attendance

D. Lane Garrett	Richard Keil	Bryan Beske	Chris Chadbourne
Dennis DeCosta	Dustin Fox	Will Sheh	K.S.Chan
Mike Noori	Steve Greenfield	Marcia Eblen	Koushik Chanda
Curt Stidham	Brian Story	Hanna Abdallah	Mike Noori
Martin Havelka	Donald N. Laird	Dale Boling	Shashi Patel
Doug Smith			

Guests In Attendance:

Gary Engmann	Rob Hobbs	Allen Love	Ryan Stargel
Michael Humphrey	Oko Buckle	Das Tndeb	Jake Janowak
Roberto Gois	Pavel Ionita	Soni Vishwa	Rahimi Mostata
Bob Hobbs	Don Russell		

Rich Keil presented the latest revision of the IEEE Obligatory Statement regarding patents in standards and inappropriate topics for working group meetings. Rich gave a brief update of the proceedings from the previous meeting and the minutes were approved.

Survey Update:

Rich provided a brief introduction of the project. In the last meeting some final corrections were made to the survey questions and we focused on determining how to host the survey and assembling a list of individuals to take the survey. Steve Greenfield gave a brief introduction on the history of the survey and gave an update on the status of the survey. Steve has setup a mockup of the survey on a web-based service (Survey Monkey). It takes about 10 to 15 minutes to complete.

Based on the format of the Professional Affiliation Page we decided to make the following fields mandatory fields; Name, Company, Title and Country. All other contact information will be optional. We reviewed the all questions to determine the field properties for each. We also reviewed each question again to make sure the question was structured correctly to provide the information sought from the survey. Dale Boling documented the changes required for the individual questions per the group discussion for Steve Greenfield.

The working group decided that all yes/no questions will have to be one or the other, not both. The term “generally” will be added to questions as necessary as a means to have the user to provide input on their most common practice and not all possible practices that they employ.

In Section Four Questions 4 and 5 need to be swapped. Question 6 asks if the respondent calculates Step Potential if the answer is “YES” then we need an additional question to ask how far beyond the station do you evaluate Step Potential.

Steve said that there are two options for setting up the survey on Survey Monkey. The first is posting a mailing list specific to the survey and only those listed can participate or second it can be open to any participants. We want to have it open so individuals can forward the link to others to who may want to participate.

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We need to build a general database of individuals of whom we want to send the survey link. We currently have a list of individuals from the 123 site. We have the list that Lane provided for the Southeast Electric Exchange. Sakis said that he would provide his client list. Gary said that he never got a response to his three requests to get a list for IEC. Gary has an old list (IEC TC99) that he will forward to Curt. Hanna said that we will forward the link to survey to CIGRE for sending out the email for the survey.

Review of IEEE Std80

Rich led a discussion of the review and comments submitted by participants on the standard. Martin Havelka had a couple of comments on the scope and purpose that Rich likes, but it would require a change to the PAR. Rich wants to get the ballot out early 2010.

Clauses 1-6

Martin Havelka – had a number of spelling and grammatical changes. He also updated the references by eliminating the dates as they are no longer required.

Clauses 7-10

Hamid Sharifnia – had a few editorial comments. From the previous meeting Hamid had comments about Figures 7 & 8 regarding the Thevenin Equivalent. A sentence was added after Equation 11 of the second draft to provide clarification. “For most practical cases, the effects of the Zsys, grid resistance and the mutual resistance between the grid and the person’s feet can be neglected on the total circuit Thevenin equivalent impedance. Thus, ZTh is represented by the equivalent impedance of the person’s feet.”

Clauses 11-13

Curt Stidham and Steve Greenfield had a few technical and editorial comments from the previous meeting that have been incorporated into the draft.

Rich said that we need to look at the Clause on connectors and make sure that the terminology used there matches that used in the draft of IEEE Std837.

Clause 17

Dennis De Costa was supposed to have investigated Clause 17.5 as it relates to IEEE-Std.525 and make recommendation as it relates to safety. This is still to be completed. In Clause 17.5 Lane recommended that we delete the last sentence of the first paragraph. “The wire or strap used to connect the cable shield ground connection to the permanent ground must be sized to carry the available fault current”. Rich has made the changes that Lane Garrett recommended from the last meeting up through 17.9. Clause 17.5 still needs to be addressed. Lane to provide a revision to this Clause 17.9.3 to provide clarification.

Clause 19

Lane suggests removing test methods covered in 19.1.1 through 19.1.3. We should just make reference to IEEE-Std.81. We need to compare this section to IEEE Std.81 as that working group progresses.

Annexes

Rich has received comments from Keith Wallace regarding Annex C. Lane Garrett has also made some edits to Annex C.

Next meeting will October (09) in Nashville.

Curt Stidham
D-7 Secretary