

**IEEE Working Group D-7  
IEEE PES JTCM  
Anaheim Meeting Minutes (January 11, 2012)**

**Summary**

The working meeting of Working Group D-7 was held in Anaheim, CA. There were 11 members and 13 guests in attendance. One of the guests in attendance has requested membership in the working group.

**Members in Attendance**

Bryan Beske	Marcia Eblen	Rich Keil	D. Lane Garrett
K. S. Chan	Martin Havelka	Steve Greenfield	Will Sheh
Curtis Stidham	Greg Steinman	Henri Lemeilleur	

**Guests in Attendance:**

Charles Haahr	Bob Nowell	Khaled Akida	George Triantopoulos
Bob Hobbs	Shawn McGann	Cris Kramschuster	Thomas Callsen
Grazia Todeschwi	Dan Holm	Ryan Bucio	Thomas Harger
Jesse Rorabaugh **			

\*\* Requested membership status

The meeting began with introductions. An attendance list was passed around the room. The obligatory IEEE Slides were shown. Rich Keil gave a brief update of the proceedings from the previous meeting and the minutes were approved. Curt Stidham gave a brief update on the health issues he experienced in 2011.

**Draft Standard 80**

The latest draft is on the website P 80 Template 1 1 12. Members have requested the password to the WG D7 protected files on the website. The password is: rkeil5.

From the E6 WG meeting on testing (Std81) a few things that came up with regards to references and definitions of step & touch voltages. The equations for step and touch voltages were discussed. The definitions of Step & Touch Voltage will be edited to match that for IEEE Std81. The definitions will be changed to state “were a person could be standing” instead of “were a person is standing.”

The working group had a discussion on the relevance of some of the supporting standards that are referenced in Std 80. It was decided that the following supporting standards will be removed; IEEE Std.142, Std.367, Std.665, Std.1100. Clause 1.3 in Std.80 references Std.142. It was recommended by Lane that Clause 1.3 be removed from the standard. The WG was in agreement and it will be removed from the standard.

**Clause 11 (Selection of conductors and connections):**

Jesse drafted an example problem of how to calculate thermal capacity of cu bonded steel. He came up with a source to cover most of the data in the tables in the Metals Handbook by the American Society for Metals. This reference will need to be added to the Bibliography.

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**Clause 10 (Special considerations for GIS)**

Jesse attended a meeting for GIS and it was discussed that some of the calculation in Std.80 were incorrect. Rich had a discussion with the KO Subcommittee Chair on Clause 10. Rich is going to send them Clause 10 and they will make the revisions where they see errors.

**Bibliography:**

Rich would like to get this section cleaned up then the references can be cleaned up throughout the standard. Rich has reviewed all the references in the Bibliography and where they appear within the document. Rich said there is currently no reference to the standards dictionary. Lane says that he believes that is no longer required.

Lane – Clause 15.9 Computation of current division: To the sentence “Dawalibi [B37], provides algorithms for deriving simple equations to solve for the currents in the grid and in each tower” add reference [B40].

Rich - [B18] CIGRÉ Working Group 33/13-09, “Very fast phenomena associated with gas, insulated substations,” was referenced in Clause 10. Rich will wait until he hears back from the GIS group before deciding to keep it.

Rich – could not find [B127] Rüdenberg, R., “Grounding principles and practices—Part 1, Fundamental considerations on grounding currents” in the document anywhere. It appeared in the 1986 Edition but not in the 2000 Edition.

Marcia recommends that [B151] Yu, L., “Determination of induced currents and voltages in earth wires during faults,” should be referenced in Clause 16 (c).

**Closing:**

Rich is going to ask for a PAR extension based on issues with Clauses 10 & 11 by end of January. Rich would like to have complete review by members by 3/1/12. Then request balloting formation and editorial/legal review by 3/15/12.

Next Meeting - Annual Substations Meeting, Raleigh, NC May 20-24, 2012

Curt Stidham  
D-7 Secretary