

## Meeting Minutes

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### A. Introductions

Working Group meeting was called to order April 29, 2013 @ 8:10 AM CDT. The meeting agenda was reviewed and approved.

Introductions were made of all attendees.

The IEEE Patent Policy and Business Conduct slides were reviewed by the attendees prior to registration to the meeting. No patent declarations were made known. The IEEE patent policy may be reviewed at the following web site:

<http://standards.ieee.org/board/pat/pat-slideset.pdf>

### B. Attendance

Sixteen Working Group members were present, with nine guests also in attendance.

Attendees:

<b>Name</b>	<b>Affiliation</b>	<b>Member / Guest</b>
<i>Ted Burse</i>	<i>Powell Industries</i>	<i>guest</i>
<i>Clint Carne</i>	<i>Schneider Electric</i>	<i>guest</i>
<i>Dave Dunne</i>	<i>Schneider Electric</i>	<i>member</i>
<i>Tim Faber</i>	<i>Schneider Electric</i>	<i>guest</i>
<i>Keith Flowers</i>	<i>Siemens Industry</i>	<i>chair</i>
<i>Brian Gerzeny</i>	<i>Powell Electrical Systems</i>	<i>member</i>
<i>Lou Grahor</i>	<i>Eaton Corporation</i>	<i>member</i>
<i>Dave Groves</i>	<i>SMC Electrical Products</i>	<i>member</i>
<i>Tom Hawkins</i>	<i>Siemens Industry</i>	<i>member</i>
<i>Jeff Hidaka</i>	<i>Underwriters Laboratories</i>	<i>member</i>
<i>Dan Hrcir</i>	<i>Eaton Corporation</i>	<i>member</i>
<i>Anurag Jivanani</i>	<i>General Electric</i>	<i>member</i>
<i>Harry Josten</i>	<i>Siemens Industry</i>	<i>member</i>
<i>Arthur Jur</i>	<i>Eaton Corporation</i>	<i>guest</i>
<i>Chad Kennedy</i>	<i>Schneider Electric</i>	<i>member</i>
<i>Mike LaFond</i>	<i>General Electric</i>	<i>member</i>
<i>Wangpei Li</i>	<i>Eaton Corporation</i>	<i>guest</i>
<i>Jeff Mizener</i>	<i>Siemens Industry</i>	<i>member</i>
<i>Darryl Moser</i>	<i>ABB</i>	<i>member</i>
<i>Owen Parks</i>	<i>ABB</i>	<i>guest</i>
<i>Richard Rohr</i>	<i>Powell Electrical Systems</i>	<i>guest</i>
<i>Amy Rowell</i>	<i>Eaton Corporation</i>	<i>guest</i>
<i>Michael Seabrook</i>	<i>General Electric</i>	<i>guest</i>
<i>John Shullaw</i>	<i>General Electric</i>	<i>member</i>
<i>Dean Sigmon</i>	<i>Eaton Corporation</i>	<i>member</i>

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### **C. Fall 2012 Meeting Minutes**

Following the Fall 2012 meeting in San Diego, the meeting minutes were both distributed to all participants, and posted on the website. Minutes were approved unanimously by consent.

### **D. Document Status**

IEEE Std. C37.14 was reaffirmed March 2008, with next action required 2018.

The PAR for this project was approved on September 10, 2011.

### **E. Draft 6**

On February 18, 2013, Draft 6 was circulated to the working group, and to all other parties who previously had expressed interest in this document. Approximately 150 comments were made in regard to Draft 6 for resolution by the Working Group. The comments and comment resolution will be supplied in addition to Draft 7 to all WG members and known interested parties.

### **F. Definitions**

Per direction from ADSCOM, the definitions related to terms utilized in this document have been imported from the soon-to-be withdrawn IEEE Std. C37.100. In the course of creating Draft 7, the WG has proposed changes to some of these definitions (from the published definition from C37.100).

### **G. Dependent Manual Operation**

The Working Group voted to remove “dependent manual operation” as a preferred construction type.

### **H. Undervoltage Trip Devices**

The Working Group found that some of the language describing the pickup and dropout behavior of the undervoltage trip devices, while completely accurate, could be made clearer. Some language from C37.17 was adopted in the process of clarifying the performance requirements.

### **I. Dielectric Withstand**

When production testing dc power circuit breakers, the Working Group reaffirmed that all dielectric withstand tests could be conducted for 1 second at 120% of the stated test value in clause 9.1. This is consistent with ANSI C37.50 and ANSI C37.51.

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**J. “High Speed Electronic Trip Devices?”**

In the midst of the mechanical endurance testing requirements clause, a term “high speed electronic trip devices” was introduced. The WG has revised this to be more precise – changing the term to “impulse trip device.”

**K. Secondary Disconnects**

The definition of secondary disconnects was revised to permit manually connected umbilical cords as an acceptable means of making secondary connections.

**L. 1500 vdc**

1500 vdc was added to clause 6.2 as a preferred voltage rating. The Annex A tables will be revised to include 1500 vdc. Working Group members were requested to prepare recommendations for preferred short-circuit ratings in advance of the next face-to-face meeting.

**M. Annex A Tables 1 and 2**

An ad hoc subgroup proposed preferred short-circuit ratings for 600 – 1000 vdc ratings within Annex A tables 1 and 2. Working Group members were requested to review these recommendations for preferred short-circuit ratings in advance of the next face-to-face meeting (to be discussed).

**N. Short Circuit Definitions**

The Working Group discussed that the short-circuit ratings are applied differently, depending on the type of dc circuit breaker. Users find this to be confusing, and has attempted to address this issue with additional terms included in Draft 7 mapped to the dc circuit breaker types.

**O. Conclusion**

PC37.14-Draft 7, the PC37.14-Draft 6 consolidated comment list, and a blank Draft 7 comment form will be circulated to the Working Group, and all parties who have expressed interest in this document. The chairman aims to have this task completed within 10 weeks of this meeting.

The meeting was adjourned at 11:50 PM CDT.

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**P. Upcoming Meetings**

The face-to-face Working Group meetings are held in conjunction with the IEEE PES Switchgear Committee meetings. The upcoming Switchgear Committee meetings are tentatively planned for:

October 2013: San Antonio, TX (specific date and location TBD)

May 2014: Orlando, FL (specific date and location TBD)

October 2014: Asheville, NC (specific date and location TBD)

IEEE PES Switchgear Committee meeting announcements and registration can be found at the following link:

[http://www.ewh.ieee.org/soc/pes/switchgear/NextMeeting/Future\\_Meetings.html](http://www.ewh.ieee.org/soc/pes/switchgear/NextMeeting/Future_Meetings.html)

Minutes submitted by:  
Keith Flowers  
C37.14 Working Group Chair  
April 29, 2013