

Meeting Minutes

---

**A. Call-to-Order and Agenda**

The Spring 2014 face-to-face Working Group Meeting was held on May 5, 2014 at the Disney Contemporary Resort, in conjunction with the IEEE PES Switchgear Committee Meetings. The Working Group meeting was called to order at 8:05 AM by the WG Chair, Keith Flowers.

The meeting agenda was reviewed and Harry Josten moved to approve. Lou Grahor seconded the motion, which was subsequently unanimously approved.

**B. Attendance**

Introductions were made of all attendees. Attendees are listed below.

Fifteen Working Group members were present, with ten guests also in attendance.

Attendees:

<b><i>Name</i></b>	<b><i>Affiliation</i></b>	<b><i>Member / Guest</i></b>
<i>Ted Burse</i>	<i>Powell Industries</i>	<i>guest</i>
<i>Clint Carne</i>	<i>Schneider Electric</i>	<i>guest</i>
<i>Susan Colsch</i>	<i>Schneider Electric</i>	<i>guest</i>
<i>Dan Delfino</i>	<i>General Electric</i>	<i>guest</i>
<i>Dave Dunne</i>	<i>Schneider Electric</i>	<i>member</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>Jeff Hanson</i>	<i>Schneider Electric</i>	<i>guest</i>
<i>Trevor Hendricks</i>	<i>Schneider Electric</i>	<i>guest</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>John Kaminski</i>	<i>Siemens Industry</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>James Lagree</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>Richard Rohr</i>	<i>Powell Electrical Systems</i>	<i>member</i>
<i>Amy Rowell</i>	<i>Eaton Corporation</i>	<i>guest</i>
<i>Christian Sasse</i>	<i>Taurida 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>

## Meeting Minutes

---

### **C. Rules and guidelines for conducting working group meetings**

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>

### **D. Working Group P&Ps**

The Switchgear Committee Working Group P&P's were previously distributed to all participants via email. They are also posted on the Switchgear Committee website at the following website:

<http://www.ewh.ieee.org/soc/pes/switchgear/o&p/Procedures.html>

### **E. Fall 2013 Meeting Minutes**

Following the Fall 2013 meeting in San Antonio, TX, the meeting minutes were both distributed to all participants, and posted on the website. Dave Dunne moved to approve the minutes. Dan Hrcir seconded the motion, which was subsequently unanimously approved.

### **F. 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.  
The PAR for this project expires in December 2015.

### **G. Technical Discussion Highlights**

The following is a high-level summary of the technical discussions from this meeting.

#### **i. Definitions**

The definitions related to terms utilized in this document have been imported from the soon-to-be withdrawn IEEE Std. C37.100. These definitions will remain within this document, until LVSD and/or ADSCOM provides alternatives to protecting these definitions after the expiration of IEEE Std. C37.100.

## Meeting Minutes

---

### ii. **Circuit Breaker Bonding**

The Working Group considered a proposed rewrite of the “Circuit breaker bonding connection” clause by Chuck Ross. While the text from Mr. Ross was well written, the context of his discussion revolved around application of LV dc switchgear, and better suited for consideration for IEEE Std. C37.20.1. The WG unanimously decided to reject this proposed change. Additionally, the last two paragraphs of 7.8 (Draft 9) were stricken, as determined not appropriate for this document, as well.

### iii. **High and Low Frequency Bonds (Annex C Tables)**

At the Fall 2013 Working Group meeting, the high frequency bonding tables were removed, in favor of the harsher requirements for the low frequency bonding tables on the grounds that the load time constant is not identified for users, and therefore unclear if a particular circuit breaker is suitable for the application. This issue is consistent for high-speed, semi-high-speed, and rectifier circuit breakers. The Working Group reconsidered these tables, and decided to add these tables back into the document, with the addition of the requirement for adding the tested time constant to the nameplate for high-speed, semi-high-speed, and rectifier circuit breakers.

### iv. **Peak and Sustained Currents**

A proposal was made to further divide the short-circuit ratings to potentially increase clarity for end users of what the ratings mean. The proposal is as follows:

- i. “Rated peak current” would be subdivided into “Rated short circuit peak current” and “Rated short time peak current.”
- ii. “Rated short-time current” would be subdivided into “Rated short circuit sustained current,” and “Rated short time sustained current.”

Mike LaFond motioned that the proposed changes did not improve clarity, and the changes should be rejected. Lou Grahor seconded the motion. The motion passed, with one dissenting vote cast.

## H. **Ballot**

The WG addressed all of the comments from previous drafts, resulting in Draft 10. Harry Josten motioned to initiate the IEEE SA ballot process with the Draft 10 document. Dave Dunne seconded the motion. The motion carried unanimous.

The WG Chair agreed to inform the LVSD Subcommittee of the progress of the document, and the initiation of the balloting process.

The meeting was adjourned at 11:42 AM.

Meeting Minutes

---

**I. 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:

September 22 – 25, 2014: Asheville, NC (specific date and location TBD)

April 27 – 30, 2015: St. Pete Beach, FL (specific date and location TBD)

September 20 – 24, 2015: San Diego, CA (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  
May 5, 2014