

**1) Introduction of Members and Guests**

Rod Sauls

Member introductions

Presentation of new members of the subcommittee:

Sushil Shinde  
Xi Zhu

**2) Approval of Minutes of Previous Meeting**

Rod Sauls/Mauricio Aristizabal

Approval of minutes of St. Pete Beach:

Motion by John Webb, seconds Devky Sherma

**3) Membership**

	Users	Manufacturer	Independent & Consultants	Corresponding Members	Total Membership	Guests
Current membership	16	23	8	5	52/47 for Quorum calc.	
Attendance	11	16	6	1	33	21

**4) Chairman's Report**

Rod Sauls

Chairman (Rod Sauls):

rodsauls@ieee.org

205-257-4143

Secretary (Mauricio Aristizabal):

m.aristizabal@ieee.org

724-696-1431

- WG chairs need to email minutes of their WG meetings to the subcommittee secretary no later than October 12<sup>th</sup>.

**5) Reports of Working Groups**

**a) Technical Paper Reviews**

Leslie Falkingham  
(Jeff Nelson)

No report

**b) WG Activities**

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Document	Title	SubCommittee	WG Chair	PAR	IEEE Status	Activity
PC37.04	Standard for Ratings and Requirements for AC High Voltage Circuit Breakers with Rated Maximum Voltage above 1000 V	HVCB	Jeff Nelson	PAR Expires 12-31-2015	Reaffirmed 2006 Document Expires 12/31/2018	Meet 10/2/12 Draft target to be released by mid-December
C37.04-1999 Cor 1-2009	IEEE Standard for Rating Structure for AC High-Voltage Circuit Breakers Corrigendum 1	HVCB	Jeff Nelson		Document Expires 6/17/2019	
C37.04a-2003	IEEE Standard Rating Structure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis: Amendment 1 Capacitance Current Switching	HVCB	Roy Alexander	Included on PC37.04 PAR	Reaffirmed 2006 Document Expires 12/31/2018	
C37.04b -2008	IEEE Standard for Rating Structure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis Amendment 2: To Change the Description of Transient Recovery Voltage for Harmonization with IEC 62271-100	HVCB	Kirk Smith	Included on PC37.04 PAR	Document Expires 12/31/2018	
C37.06.-2009 ANSI	IEEE Standard for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis - Preferred Ratings and Related Required Capabilities for Voltages Above 1000 V	HVCB	Georges Montillet	Included on PC37.04 PAR	Document Expires 9/11/2019	
PC37.06.1	Recommended Practice for Preferred Ratings for High-Voltage (>1000 volts) AC Circuit Breakers Designated Definite Purpose for Fast Transient Recovery Voltage Rise Times	HVCB	Keith Wallace	PAR Expires 12-31-2013	Document Expires 12/31/2018	Meet Bill Bergman chaired the meeting Smaller group formed to work
PC37.09	IEEE Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	HVCB	Xi Zhu		Reaffirmed 2007 Document Expires 12/31/2018	Meet 10/3/12 WG formed. Vice Chair: Victor Hermosillo, Secretary: Mike Skidmore Will request PAR on March
C37.09-1999 /Cor 1-2007	IEEE Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis - Corrigendum 1	HVCB	Georges Montillet		Document Expires 12/31/2018	
C37.09a-2005 Amendment to C37.09-1999	American National Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis Amendment 1: Capacitance	HVCB	Roy Alexander		Reaffirmed 2007 Document Expires 12/31/2018	

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C37.09b-2010	IEEE Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis -- Amendment 2: To Change the Description of Transient Recovery Voltage for Harmonization with IEC 62271-100	HVCB	Kirk Smith		Document Expires 12/8/2020	
PC37.010	Application Guide for AC High-Voltage Circuit Breakers > 1000 Vac Rated on a Symmetrical Current Basis	HVCB	Helmut Heiermeier	PAR expires 12-31-2014	Reaffirmed 2005 Document Expires 12/31/2018	Meet 10/1/12 Work on draft 3 Will ballot before S13
C37.011-2011	IEEE Guide for the Application of Transient Recovery Voltage for AC High-Voltage Circuit Breakers	HVCB	Denis Dufournet		Document Expires 12/31/2021	
PC37.012	IEEE Application Guide for Capacitance Current Switching for AC High-Voltage Circuit Breakers	HVCB	Anne Bosma	PAR expires 12-31-2015	Reaffirmed 2011 Document Expires 3/31/2021	Meet 10/1/12 Work on draft Will ballot before S13
C37.013-1997	IEEE Standard for AC High-Voltage Generator Circuit Breakers Rated on a Symmetrical Current Basis	HVCB	Bill Long		Reaffirmed 2008 Document Expires 12/31/2018	See P62271-37-013
C37.013a-2007	IEEE Standard for AC High Voltage Generator Circuit Breakers Rated on a Symmetrical Current Basis - Amendment 1: Supplement for Use with Generators Rated 10-100 MVA	HVCB	Bill Long		Document Expires 12/31/2018	See P62271-37-013
C37.015-2009	IEEE Guide for the Application of Shunt Reactor Switching	HVCB	Anne Bosma		Document Expires 12/9/2019	
PC37.016	Standard for AC High Voltage Circuit Switchers Rated 15.5kV through 245kV	HVCB	Peter Meyer (Randy Dotson)	PAR expires 12-31-2013	Document Expires 12/31/2018	
C37.017-2010	IEEE Standard for Bushings for High-Voltage [over 1000 V (ac)] Circuit Breakers and Gas-Insulated Switchgear	HVCB-GIS	Devki Sharma		Document Expires 9/30/2020	
C37.081-1981	IEEE Guide for Synthetic Fault Testing of AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	HVCB	TBD (Mel Smith)		Reaffirmed 2007 Document Expires 12/31/2018	TF to evaluate possible implementation of IEC 62271-101 will be part of PC37.09
C37.081a-1997	Supplement to IEEE Guide for Synthetic Fault Testing of AC High Voltage Circuit Breakers Rated on a Symmetrical Current Basis	HVCB	TBD (Mel Smith)		Reaffirmed 2007 Document Expires 12/31/2018	See C37.081
C37.082-1982	IEEE Standard Methods for the Measurement of Sound Pressure Levels of AC Power Circuit Breakers	HVCB	Leslie Falkingham		Reaffirmed 2006 Document Expires 12/31/2018	See P62271-37-082

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Document	Title	SubCommittee	WG Chair	PAR	IEEE Status	Activity
C37.083-1999	IEEE Guide for Synthetic Capacitive Current Switching Tests of AC High-Voltage Circuit Breakers	HVCB	TBD (Mel Smith)		Reaffirmed 2007 Document Expires 12/31/2018	See C37.081
C37.10-2011	IEEE Guide for Investigation, Analysis, and Reporting of Power Circuit Breaker Failures	HVCB	Bill Bergman		Document Expires 12/31/2021	
1325-1996	IEEE Recommended Practice for Reporting Field Failure Data for Power Circuit Breakers	HVCB	Devki Sharma		Reaffirmed 2008 Document Expires 12/31/2018	Request to form balloting group submitted on 10/1/2012 by Dave Mitchell
C37.10.1-2000	IEEE Guide for the Selection of Monitoring for Circuit Breakers	HVCB	Dave Mitchell		Reaffirmed 2006 Document Expires 12/31/2018	PAR requested, pending approval by NESCOM on 10/19/2012 meeting
PC37.11	Standard Requirements for Electrical Control for AC High-Voltage (>1000V) Circuit Breakers	HVCB	John Webb	PAR Expires 12-31-2012	Reaffirmed 2003 Document Expires 12/31/2018	Meet 10/1/2012 Request forming ballot poll Will submit PAR extension for 2 years
C37.12-2008	IEEE Guide for Specifications of High-Voltage Circuit Breakers (over 1000 Volts)	HVCB	Ken Edwards		Document Expires 12/31/2018	WG Needs be formed by the spring 2013
C37.12.1-2007	Draft IEEE Guide for High Voltage (>1000V) Circuit Breaker Instruction Manual Content	HVCB	Bill Bergman		Document Expires 12/31/2018	A WG Needs be formed by the spring 2014
C37.20.6-2007	4.76 kV to 38 kV Rated Grounding and Testing Devices Used in Enclosures	ADSCOM joint HVCB/SA	T. W. Olsen			
C37.59-2007	Requirements for Conversion of Power Switchgear Equipment	ADSCOM joint HVCB, SA, and LVSD	Pete Dwyer			
C37.122-2010	Standard for High Voltage Gas-Insulated Substations Rated above 52 kV	Joint SUB/SWG HVCB	Jon Brunke			Published – To be eliminated from the list.
C37.122.3-2011 (was P1712)	IEEE Guide for Sulphur Hexafluoride (SF6) Gas Handling for High-Voltage (over 1000 Vac) Equipment	Joint SUB/SWG HVCB	Gordon van der Zel (Jeff Nelson)			
C57.142-2010	IEEE Guide to Describe the Occurrence and Mitigation of Switching Transients Induced by Transformers, Switching Device, and System Interaction	TC/HVCB	R Degeneff (Steve Lambert)			Published. Transformer committee working on revision
P62271-37-082	Standard for High-voltage switchgear and controlgear - Part 37-082: Measurement of sound pressure levels on alternating current circuit-breakers	HVCB	Leslie Falkingham	PAR Expires 12-31-2012		Document approved by IEC. Expected to be approved by REVCOM in october

<b>Document</b>	<b>Title</b>	<b>SubCommittee</b>	<b>WG Chair</b>	<b>PAR</b>	<b>IEEE Status</b>	<b>Activity</b>
P62271-37-013 (Replaces C37.013 and C37.013a)	Standard for AC High Voltage (rated above 1000 V) Generator Circuit Breakers for Use With Generators Rated 10 MVA or More	HVCB	Bill Long	PAR Expires 12-31-2013		Reviewing technical comments from IEEE ballot.

## 6) Reports of Task Forces

### a) Critical Currents

The task force will release a recommended test procedure to be included in of PC37.09

**Roy Alexander**

### b) Transformer Natural Frequencies (TF for C37.06.1)

No update in this meeting

**Bill Bergman**

## 7) Reports of AdsCom WG/TF

### a) Capacitance Switching TF

Discussions continue, will release a document by the end of November,

**Neil McCord**

## 8) Reports of CIGRE

- a) New Working Groups Mietek Glinkowski
  - D1.51 Dielectric performance of eco-friendly gas insulated systems Respond by 10/12/12
  
- b) A3.26 Influence of shunt capacitor banks on circuit breaker fault interruption duties Anne Bosma
  
- c) CIGRE HV Vacuum CB WG (A3.27) Kirk Smith/Mietek Glinkowski  
Will meet in Berlin
  
- d) A3.28 Switching phenomena and testing requirements for UHV and EHV equipment Denis Dufournet  
Tutorial will be presented after the Main Committee meeting
  
- e) A3.29 Deterioration of ageing substation equipment Ken Edwards
  
- f) A3.30 Overstresses in S/E equipment. Ken Edwards

## Old Business

Rod Sauls

- a) Possible Task force on HVDC breakers  
Joanne Hu, Leslie Falkingham and Anthony Ricciuti volunteered to look for bibliography and read the CIGRE guide. They will present their findings on the spring 2012 meeting.  
Extension requested to Fall 2012  
None of the members in attendance, a list of references on DC CB's was presented
- b) Please review open ballot invitations at:  
<https://development.standards.ieee.org/my-site/open-ballot-invitations>

## 9) New Business

- a) TF to evaluate possible implementation of IEC 62271-101 Mauricio Aristizabal  
The TF will be formed as part of PC37.09 WG
- b) Hand vote to evaluate if the committee agrees on working on C37.12.1 on S2013 and C37.12 on S2014. 16 members voted affirmative, no abstentions and no negative votes
- c) This is the last meeting of Rod as chair of HVCB. Excellent job, thank you Rod!
- d) Mauricio Aristizabal will assume the chair position and Michael Skidmore will become secretary

## 10) Future Meetings

- a) Spring 2013: Galveston, TX. April 28<sup>th</sup> – May 2<sup>nd</sup>, 2013

- b) Fall 2013: San Antonio, TX Sept. 15th – 19th, 2013
- c) Spring 2014: Lake Buena Vista, FL. May 4th – 8th, 2014

## **11) Adjourn**

Motion to Adjourn by Ken Edwards, seconds Anne Bosma