

1) Introduction of Members and Guests

Rod Sauls

Member introductions

2) Approval of Minutes of Previous Meeting

Rod Sauls/Mauricio Aristizabal

Approval of minutes of Nashville: Motion Devki Sharma second Leslie Falkingham
Approved unanimously

3) Membership

	Utility	Manufacturer	Independent & Consultants	Corresponding Members	Total Membership	Guests
Current membership	21	22	7	4	54/50 for Quorum calc.	
Attendance	9	16	4	0	29	18

4) Chairman's Report

Rod Sauls

Chairman (Rod Sauls): rodsauls@ieee.org 205-257-4143
Secretary (Mauricio Aristizabal): m.aristizabal@ieee.org 724-873-2606

- Minutes to all WG meetings will be posted to the web in pdf format, unless otherwise specified
- Re-establishing another TF (from C57.142) to look at the interaction between breakers and transformers at the EHV level. Jim McBride will chair the new TF. This time, they plan to involve Switchgear on their work.

5) Reports of Working Groups

a) Technical Paper Reviews

Leslie Falkingham

- 6 international papers were submitted for review and all were rejected. Content was technically outdated.
- There is a request to the members of the committee to submit new research papers.

b) WG Activities

HVCB Switchgear Subcommittee Minutes, 05-02-2012, St. Pete Beach, FL

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 05/01/2012 Want to have a draft out and back for comments by F12. The recommendation of the TF on 3 phase line faults to reference Cigre 408 and the one from the TF on critical currents to recommend the IEC testing procedure will be incorporated on the next draft. Expected completion by F13.
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	
C37.06.1-2000 ANSI	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	Meeting cancelled WG still putting together first draft
C37.09-1999	IEEE Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	HVCB	Kirk Smith		Reaffirmed 2007 Document Expires 12/31/2018	WG Should be formed by Fall 2012
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	

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Document	Title	SubCommittee	WG Chair	PAR	IEEE Status	Activity
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	
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 4/30/2012 Document will go to ballot before fall 2012.
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	Published 2011 after the fall meeting
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 4/30/2012 WG membership was formed. Ballot expected before fall 2012
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	See proposal for new TF on new business
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 proposal for new TF on new business

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Document	Title	SubCommittee	WG Chair	PAR	IEEE Status	Activity
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
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 proposal for new TF on new business
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	1325-1996 still shows as "Active Standard" on IEEE-SA. It needs to be withdrawn
C37.10.1-2000	IEEE Guide for the Selection of Monitoring for Circuit Breakers	HVCB	Bill Bergman		Reaffirmed 2006 Document Expires 12/31/2018	PAR will be requested at this 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 on 4/30/2012 New draft to be balloted soon.
C37.12-2008	IEEE Guide for Specifications of High-Voltage Circuit Breakers (over 1000 Volts)	HVCB	Ken Edwards		Document Expires 12/31/2018	A WG should be formed on the fall 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	
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			
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)			
PC57.142-2010	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)			Will look to increase participation of SWG
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		Balloted and Approved by IEEE. Issued as FDIS by IEC Expected to be finished

Document	Title	SubCommittee	WG Chair	PAR	IEEE Status	Activity
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		IEC Ballot completed – 187 comments to discuss at May 2, 3 and 4. IEEE Ballot to begin after editorial approval, and comments to be discussed also.

6) Reports of Task Forces

a) Line Faults and Critical Currents

The task force recommendation to reference CIGRE brochure 408 for line faults and the IEC test procedure to identify and test critical currents will be incorporated on the next draft of PC37.04.

Roy Alexander

b) Transformer Natural Frequencies (TF for C3.06.1)

No update in this meeting

Bill Bergman

7) Reports of AdsCom WG/TF

a) Capacitance Switching TF

Neil McCord

8) Reports of CIGRE

- a) Status of the new Working Groups Mietek Glinkowski
No update
- 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
Last meeting in Tokyo, after two more meetings the report should be completed.
- d) A3.28 Switching phenomena and testing requirements for UHV and EHV equipment
Tutorial made in Rio last February – Proposal to present its relevant parts to this committee in San Diego Denis Dufournet
- e) A3.29 Deterioration of ageing substation equipment Ken Edwards
Recently meet in Rio de Janeiro, next meeting in Lyon.
- f) A3.30 Overstresses in S/E equipment. Meet in Vienna last September Ken Edwards
WG will meet in Paris

9) Old Business

- a) Status of joint sponsorship of substation subcommittee GIS documents C37.122.1 and C37.123 Rod Sauls

C37.122.1 remains a Substation committee document and C37.123 specification guide is looking for joint sponsorship with Switchgear Committee.
- b) **Possible Task force on HVDC breakers** Rod Sauls
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

10) New Business

- a) Topics for next meetings Sub Committee meeting Tutorial? Rod Sauls
- b) Motion to create a Task force to evaluate the implementation by IEEE of IEC 62271-101 and compare with relevant sections of C37.081 and C37.081a
Motion by Ken Edwards, seconds Denis Dufournet – Approved unanimously
- c) Motion to include C37.083 in the scope of the task force created to evaluate 62271-101
Motion by Kirk smith, seconds Leslie Falkingham– Approved unanimously

11) Future Meetings

- a) Fall 2012: San Diego, CA. Sept. 30th – October 4th, 2012
- b) Spring 2013: Galveston, TX. April 28th – May 2nd, 2013
- c) Fall 2013: San Antonio, TX Sept. 15th – 19th, 2013
- d) Spring 2014: Lake Buena Vista, FL. May 4th – 8th, 2014

12) Adjourn

Motion by Mike Crawford, seconds Ken Edwards