

1) Introduction of Members and Guests Rich York
See S09HVCBa1.pdf

2) Approval of Minutes of Previous Meeting Rich York/Rod Sauls
Approved with revision to correct typographical error in C37.011 minutes..

3) Discussion of IEEE patent policy Rich York
WG Chairs were reminded to make sure and review the IEEE patent policy at the beginning of every meeting.

4) Membership (See S09HVCBa2.pdf)

	Utility	Manufacturer	Independent / Consultants/Corresponding	Guests	Total Membership
Current membership	22	22	13		57
Attendance	13	8	6	13	40

5) Chairman's Report Rich York
Chairman (Rich York): richyork@ieee.org 724-696-1555
Secretary (Rod Sauls): rodsauls@ieee.org 205-257-4143

All WG Chairs are requested to maintain the AMS roster for the WG.

- Ken Edwards mentioned that IEEE has developed a roster system similar to the AMS system. It is not mandatory that the AMS system be used for WG rosters.

Reminder to everyone to review posted meeting minutes.

- Please review WG meeting minutes and make sure any comments or concerns were documented. If you do not feel that your comments were adequately addressed and it's not identified on the minutes, please note that and make the WG aware of the situation so it can be duly noted.

6) Reports of Working Groups

- a) Technical Paper Reviews** Jeff Nelson
- Over the past 15 months, 5 papers have been approved and 4 have been rejected while 7 are in various stages of review.
 - There were 56 papers submitted with the majority of them coming from authors in the field of academia with relatively few from the manufacturing, testing and user arenas.
 - The majority of the papers dealt with circuit breaker design or old information.

b) WG Activities

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Document	Title	SubCommittee	WG Chair	PAR	IEEE Status	Activity
C37.04-1999 Cor_1	IEEE Standard Rating Structure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	HVCB	Jeff Nelson	2007		Ballot closed and in comment resolution stage.
<ul style="list-style-type: none"> The corrigenda was recirculated because the base document was not included in the initial ballot. The recirculation included the base document and closes on 5/15/09. The only changes from the first ballot were editorial. Jeff N plans to kickoff the C37.04 revision WG this fall and will need 1 meeting. 						
C37.04a-2003 Amendment to C37.04-1999	IEEE Standard Rating Structure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis---Amendment 1: Capacitance Current Switching	HVCB	Roy Alexander		R2006	To be incorporated into new C37.04
<ul style="list-style-type: none"> No Activity 						
C37.04b-2008 Amendment to C37.04-1999	IEEE Standard Rating Structure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis---Amendment 2 Required TRV Values:	HVCB	Kirk Smith		Approved 2008	Published on April 3, 2009
<ul style="list-style-type: none"> Document was published on April 3, 2009. Congratulations went out to Kirk Smith. Working Group met. See S09HVCBa3.doc 						
C37.06.-2000 ANSI	American National Standard for Switchgear--AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis---Preferred Ratings and Related Required Capabilities	HVCB	Georges Montillet	2007	Disapproved Revcom 2009	D10 was disapproved by Revcom March 1009. Currently on Recirculation #4. 5/5/09- The WG voted to remove .06.1 info and recirc.
<ul style="list-style-type: none"> Working Group met. See S09HVCBa4.doc A C37.06.1 TF was formed during the C37.06 WG meeting to create a PAR and pick a Chair. Motion was made to form a WG to work on C37.06.1 revision by Jeff N. Motion was 2nd by Bill Bergman and subsequently approved Draft 11 will be recirculated (without C37.06.1 information) to the WG. 						
C37.06.1-2000 ANSI	American National Standard Guide for High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis---Designated "Definite Purpose for Fast Transient Recovery Voltage Rise Times"	HVCB	Keith Wallace			The .06.1 info has been taken out of .06. A new WG is formed to revise C37.06.1 with K. Wallace as the Chair.

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<ul style="list-style-type: none"> Task force was formed in C37.06 meeting and met in the second C37.06 meeting slot. See S09HVCBa11.doc PAR was created to be submitted by 5/7/09 in order to be placed on June NESCOM schedule. Will need a meeting in the fall. 						
C37.09-1999	IEEE Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	HVCB	Jeff Nelson		R2007	Corrigenda and Errata published. Revision to be undertaken.
<ul style="list-style-type: none"> PAR approved until the end of 2009 and should be completed by then. 						
C37.09a-2005 Amendment to C37.09-1999	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis---Amendment 1: Capacitance Current Switching	HVCB	Roy Alexander			Incorporated into new C37.09
<ul style="list-style-type: none"> No Activity 						
PC37.09b Amendment to C37.09-1999	Draft Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis---Amendment 2 Required TRV Values:	HVCB	Kirk Smith		PAR expires 12/31/09	Draft to be sent to WG for review
<ul style="list-style-type: none"> Working Group met. See S09HVCBa3.doc 						
C37.010-2005 in IEEEExplore	IEEE Application Guide for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	HVCB	TBD		R2005	Will need WG Chair
<ul style="list-style-type: none"> This document will need some action in 2010. A request for a volunteer to Chair the WG was made. If anyone is interested, please let Rich York or Rod Sauls know. 						
C37.011-2005	IEEE Application Guide for Transient Recovery Voltage for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	HVCB	Denis Dufournet			Active PAR to revise will be applied for after approval of .04b & .06.
<ul style="list-style-type: none"> Working Group met with 10 Guests and 13 Members present. See S09HVCBa5.doc Will need 2 meeting slots in the fall. 						
C37.012-2005	IEEE Application Guide for Capacitance Current Switching for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	HVCB	Anne Bosma		R2005	Active
<ul style="list-style-type: none"> Was revised in 2005 and will need a revision by 2010. A Task Force meeting will be held in the fall 						

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C37.013-1997	IEEE Standard for AC High-Voltage Generator Circuit Breaker Rated on a Symmetrical Current Basis	HVCB	Bill Long	Approved 2009	R2008	PAR approved to revise and adopt as Dual Logo with IEC
<ul style="list-style-type: none"> Working Group met. Next step is to combine C37.013 and C37.013a. Bill Long wants to have 4 mtgs/year 						
PC37.013a	IEEE Standard for AC High-Voltage Generator Circuit Breaker Rated on a Symmetrical Current Basis---Supplement for generators 10 to 100 MVA	HVCB	Bill Long	Approved 2007	Approved	Incorporated in C37.013
<ul style="list-style-type: none"> See C37.013 above. 						
C37.015-1993 R2006	IEEE Application Guide for Shunt Reactor Switching	HVCB	Anne Bosma	Approved 2008	In Ballot	Ballot closes April 2009
<ul style="list-style-type: none"> Working Group met with 10 Members and 11 Guests in attendance. See S09HVCBa6.doc Draft 6 was sent out for ballot which closed on 5/3/09. The mostly editorial comments were discussed. 						
C37.016-2006	Standard for AC High-Voltage Circuit Switchers rated 15.5 kV through 245 kV	HVCB	Peter Meyer	Approved 2009		TF formed to address dual logo issues
<ul style="list-style-type: none"> Anne Bosma indicated that the IEC does want this document to have the Dual Logo status, but lack of attendance for the IEC meeting resulted in the rejection. There were not enough countries attending that offered to participate in the NWIP. It was noted that there were no objections and since he has 5 commitments. The feeling is that by it should be accepted by the IEC before the fall meeting. If it is accepted, we'll need 1 meeting in the fall. 						
PC37.017-20xx	Bushings for HVCB and GIS	HVCB/GIS	Devki Sharma	Approved 2009		WG Formed. Completion desired in 2009.
<ul style="list-style-type: none"> Working Group met with 6 Members and 5 Guests in attendance. See S09HVCBa7.doc Plan to have a draft out for balloting after the fall meeting. 						
C37.081-1981	IEEE Guide for Synthetic Fault Testing of AC High-Voltage Circuit Breakers Rated on a Symmetrical Current basis	HVCB	TBD		R2007	WG/TF will no longer be active.
<ul style="list-style-type: none"> No Activity 						
C37.081a-1997	Supplement to C37.081-1981	HVCB	TBD		R2007	WG/TF will no longer be active.
<ul style="list-style-type: none"> No Activity 						

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C37.082-1982 R2006	IEEE Standard Methods for the Measurement of Sound Pressure Levels of AC Power Circuit Breakers	HVCB	Leslie Falkingham	Approved Sept 2008		WG formed to revise for IEEE/IEC Dual Logo IEC Work Item to be applied for
<ul style="list-style-type: none"> Working Group met with 9 Members and 15 Guests in attendance. See S09HVCBa8.doc 						
C37.083-1999	IEEE Guide to Synthetic Capacitor Current Switching Test of AC High-Voltage Circuit Breakers	HVCB	TBD		R2006	WG/TF will no longer be active.
<ul style="list-style-type: none"> No Activity 						
C37.10-1995 R2008 PC37.10	IEEE Guide for Diagnostics and Failure Investigation of Power Circuit Breakers	HVCB	Bill Bergman	Approved 2009		TF formed to coordinate with 1325
<ul style="list-style-type: none"> Working Group met with 25 Members and 14 Guests in attendance. See S09HVCBa9.doc PAR approved on 3/19/09 the revision will include the combination and replacement of the former IEEE Std C37.10TM-1995 and IEEE Std 1325TM-1996 						
C37.10.1-2000	IEEE Guide for the Selection of Monitoring for Circuit Breakers	HVCB	Bill Bergman		R2006	
C37.11-2003	IEEE Standard Requirements for Electrical Control for High-Voltage Circuit Breakers Rated on A Symmetrical Current Basis	HVCB	Paul Barnett	Approved 2008		WG to review proposed changes to document
<ul style="list-style-type: none"> Working Group met with 7 Members and 12 Guests in attendance. See S09HVCBa10.doc The main discussion centered around the molded case circuit breakers and allowing electronic controls for circuit breakers. 						
PC37.12 ANSI C37.12-1991	Guide for the Specification of AC High-Voltage Circuit Breakers American National Standard for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis— Specifications Guide	HVCB	Ken Edwards		Approved 2008	D12 approved by Revcom Dec 2008
<ul style="list-style-type: none"> Published 						
C37.12.1	IEEE Guide for High Voltage (>1000V) Circuit Breaker Instruction Manual Content	HVCB	Bill Bergman		2007	Published
<ul style="list-style-type: none"> No Activity 						

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Std 1325-1996	IEEE Recommended Practice for Reporting Field Failure Data for Power Circuit Breakers	HVCB	Bill Bergman/Devki Sharma		R2008	Will be incorporated in C37.10
<ul style="list-style-type: none"> See C37.10 above. 						
C37.20.6	4.76 kV to 38 kV Rated Grounding and Testing Devices Used in Enclosures	ADSCOM joint HVCB/SA	T. W. Olsen 919-365-2208 t.olsen@ieee.org		APPROVED 2007	
<ul style="list-style-type: none"> No Activity 						
C37.59	Requirements for Conversion of Power Switchgear Equipment	ADSCOM joint HVCB, SA, and LVSD	Pete Dwyer 610.296.1273 pete.dwyer@ieee.org		Approved 2007	
<ul style="list-style-type: none"> No Activity 						
C57.142	Guide to Describe the Occurrence and Mitigation of Switching Transients Induced by Transformer and Switching Device Interaction	HVCB	Steve Lambert	Approved 2008		Ballot closed Feb 2009 and in comment resolution stage.
<ul style="list-style-type: none"> Working Group did not meet. Transformer Committee received 130 comments on the document. 90 of them were easily reconciled and 10 were related to the Switchgear Committee. The SwG Committee comments were forwarded to Tom Tobin for proper distribution. 						
C57.16	Standard Requirements, Terminology and Test Code for Dry-Type Air Core Series-Connected Reactors	Joint HVCB/Xfmr	Jeff Nelson			Working with Transformer Committee to approve joint WG for TRV information in document.
<ul style="list-style-type: none"> Jeff Nelson hasn't spoken with Transformer Committee in over a year. The Chair of the TC was going to talk with the WG and find out the status. Devki Sharma attended the TC WG and they indicated that they have requested comments by the SC but have not seen a response. Jeff Nelson said that the official Switchgear Committee response back to them was that they were out of their scope. Ken Edwards has also provided the same comment from Switchgear but they will not accept the response. 						
TLF TF	Transformer Limited Faults	HVCB	Ken Edwards			
<ul style="list-style-type: none"> Ken Edwards is still getting some data This work will be rolled into the C37.06.1 revision. 						

7) Reports of Task Forces

- a) "Longer Line Fault" TRV CIGRE A3-19 Roy Alexander
• Work completed last year and is just sitting at CIGRE Central Office with no report out as yet.

8) Reports of AdsCom WG/TF

- a) Capacitance Switching TF Neil McCord
• Neil McCord will be involved again. They had a meeting with 9 people in attendance.
• Working on combining documents
• Plan to ask for PAR on 5/7/09.

9) Reports of CIGRE

- a) CIGRE circuit breaker performance survey CIGRE A3-06 Bill Bergman
• This work is done and results are being analyzed and should be finalized in August 09 meeting.
- Kirk Smith mentioned that a new CIGRE working group has been formed dealing with Vacuum Interrupters rated 72kV and above. Kirk Smith, Pete Meyer and Mietek Glinkowski are among the participants.
 - Anne Bosma mentioned that a new CIGRE A3-26 working group has been formed dealing with faults near capacitor banks. Anne Bosma, Jeff Nelson and Mark McVeigh are among the participants.
 - Ken Edwards passed along information from Mietek Glinkowski that there is new work pertaining to the life extension of circuit breakers taking place.

10) Old Business

- a) ??? Rich York
• Rich York made a request that all working group meeting minutes and information should be submitted to either Rich York or Rod Sauls within 2 weeks. The information should include the description to be inserted into the meeting booklet as well as whether a meeting slot will be needed for the Fall 09 meeting.

11) New Business

- a) ??? Rich York
• Leslie Falkingham began a discussion on the IEEE/IEC Dual Logo standard policy. Is the intent of the IEC to use IEC numbers and drop the IEEE standard numbering?
 - Matt Ceglia said he believes it is the preference of the IEC to use a single number. Jodi Haasz currently processes requests to keep a dual numbering system in place.
 - IEEE needs to express their view to change the policy.
 - It needs to be discussed in HVCB and then brought up in the Main Committee meeting.- Rich York indicated that the IEEE/IEC agreement has gone through several iterations and no one really seems to know exactly what is going on.
- Leslie Falkingham made a motion that HVCB needs to express the view that the IEEE preference and desire is to keep both IEEE and IEC standard numbers on Dual Logo standards.
 - The motion was seconded and subsequently approved unanimously.

12) Future Meetings

- a) Denver, CO Sept 27-Oct 1, 2009
b) Myrtle Beach, SC April 25-29, 2010
• Leslie Falkingham had a question for the group from his wife.....What will the water temperature be in Myrtle Beach???
- Motion to adjourn.... Thanks for a good meeting!!