

Minutes of WG PC37.11
Electrical Control of Circuit Breakers
Monday, May 16th, 2011
10:15 – 12:00
Orlando, FL

- I Welcome
- II Review of Patent Slides
- III Introductions
John Webb is serving as new chairman due to Paul Barnett taking on new position with his employer.
Meeting opened with 10 members and 17 guests present. A quorum was present.
- IV Minutes from previous meeting of the TF were reviewed and approved with the note that the attendance must be updated: Currently reads xx members and xx guests, actual count was 15 members and 22 guests.
- V Old Business
 - a. Added note (informational) under 5 g) “NOTE: For guidance on grounding of control cable shields users should refer to IEEE Std. 525.
 - b. Revised 5 g) with respect to circuit breakers equipped with dual trip releases to allow for multiple trip circuits and expand condition “Loss of control power” to “Malfunction of one of the trip circuits” to allow for conditions other than a loss of control power to require operation of the second (or third) trip device, but limit the malfunction to electrical failures (hence the word ‘circuits’) to not prevent the use of multiple coils on a single moving iron core (plunger) as a second trip release where certain failures of one trip coil may result in mechanical binding of the trip coil plunger.
- VI New Business
 - a. The feeling of the WG was that the control circuits of a magnetically operated circuit breaker are sufficiently similar when viewed as a block diagram to those of a conventional circuit breaker that new schematic diagrams are necessary. However, electronically controlled circuit breakers (many of which are magnetically operated) often have contacts which reflect the condition of the controller or the circuit breaker (e.g., “Ready” or “Not Ready”), similar to pneumatic or hydraulically operated circuit breakers. These wiring diagrams should be modified to make the alarm circuit labels generic enough for this purpose.

- b. On the question of preferred ratings for switching voltages and currents for auxiliary contacts it was decided that this would be more appropriated for C37.06. In subsequent meeting of C37.04/.06 WG it was agreed by that WG that the C37.04/.06 WG would attempt to incorporate preferred values of aux. switch ratings in the document.
 - c. Gilbert Carmona (User) and Eldridge Byron (Manufacturer) were added to the WG as voting members, this brings the total to 22 members, 14 Manufacturer, 7 User & 1 Other.
- VII Meeting adjourned at 12:00 PM. Next meeting will be in Nashville in Oct. 2011.

Attachments: (1) Membership list.

Role	Type	First Name	Last Name	Email	Company	5/6/2009	9/30/2009	4/27/2010	9/28/2010	5/17/2011
Member	Manufacturer	Mauricio	Aristizabal	m.aristizabal@ieee.org	Pennsylvania Breaker		X	X	X	X
Guest	Member	Mietek	Glinkowski	mietek.glinkowski@us.abb.com	ABB Inc.				X	
Member	Manufacturer	Xi	Zhu	xi.zhu@ieee.org	HICO America			X	X	
Guest	Member	Devki	Sharma	devkisharma@ieee.org	Consultant		X	X	X	X
Guest	Member	Roy	Alexander	r.alexander@ieee.org	RWA Engineering	X		X	X	
Member	Manufacturer	Stan	Billings	s.billings@ieee.org	Mitsubishi Electric PP		X	X	X	X
Guest	Interested Individ	Steven	Brown	stevendbrown@ieee.org	Allen & Hoshall	X				
Member	Manufacturer	Doug	Edwards	doug.edwards@ieee.org	Siemens Energy, Inc.					
Guest	Interested Individ	Charles	Hand	charles.hand@sce.com	Southern California Edison		X			
Guest	Honorary Membe	Pete	Dwyer	pete.dwyer@ieee.org	Dwyer Enterprises	X				
Member	Other	W.J. (Bill)	Bergman	bergman@ieee.org	PowerNex Associates Inc.		X	X	X	X
Member	User	Robert	Barnett	rbarnett@ieee.org	Tennessee Valley Authority	X	X	X		
Member	Manufacturer	R.	Long	bill.long@ieee.org	Eaton Corporation		X		X	
Guest	Member	Richard	York	richyork3560@gmail.com	TE Connectivity	X	X			
Guest	Member	Chih	Chow	ccchow@pepco.com	PEPCO		X	X	X	X
Member	User	Hua Ying	Liu	liuhy@ieee.org	Southern California Edison			X	X	X
Vice-Chair	Manufacturer	Michael	Crawford	michaelfcrawford@ieee.org	Mitsubishi Electric	X	X	X	X	
Guest	Interested Individ	Jingxuan (Jc	Hu	j.hu@rbjengineering.com	RBJ Engineering Corporation		X		X	
Member	Manufacturer	Arben	Bufi	benb@hvbi.com	HVB AE Power Systems, Inc.	X	X	X	X	X
Guest	Member	Alan	Storms	a.d.storms@ieee.org	Storms Advisory Services			X	X	
Guest	Member	Jeffrey	Nelson	jeffnelson@ieee.org	Tennessee Valley Authority			X	X	X
Guest	Member	Yasin	Musa	yimusa@aep.com	AEP					
Member	Manufacturer	Anthony	Ricciuti	tricciuti@ieee.org	Eaton Corporation	X		X	X	X
Guest	Interested Individ	Mirko	Palazzo	mirko.palazzo@ieee.org	ABB	X				
Chair	Manufacturer	John	Webb	jcwebb@ieee.org	ABB	X	X	X	X	X
Member	User	Michael	Anderson	mikeeanderson@ieee.org	American Transmission Company		X		X	
Member	Manufacturer	John	Toney	john.toney@ge.com	GE	X	X	X	X	
Member	Manufacturer	Eldridge	Byron	eldridge.byron@us.schneider-eler	Schneider Electric					X
Guest	Interested Individ	Dave	Mitchell	dave.mitchell@dom.com	Dominion					
Guest	Interested Individ	Peter	Meyer	pmeyer@sandc.com	S&C Electric Company			X	X	
Guest	Interested Individ	Rick	Gavazza	r.gavazza@ieee.org	Pacific Gas & Electric			X	X	
Guest	Member	John	Brunke	jhbrunke@whidbey.com	Dr. John H. Brunke, P.E.				X	
Guest	Active Participant	Thomas	Pellerito	pelleritot@dteenergy.com	Detroit Edison	X		X	X	X
Guest	Honorary Membe	Georges	Montillet	montillet@comcast.net	GFM Consulting LLC			X		
Guest	Member	Cory	Johnson	cwjohanson@ieee.org	BPA					X
Member	User	David	Galicia	dgalicia@ameren.com	Ameren	X		X		
Member	User	Patrick	Di Lillo	dilillo@coned.com	Consolidated Edison Company of N	X	X	X		X
Guest	Member	Richard	Jackson	jacksonr@dteenergy.com	Detroit Edison		X			
Guest	Member	Roderick	Sauls	rodsauls@ieee.org	Southern Company Services	X	X			
Guest	Interested Individ	Edgar	Dullni	edgar.dullni@de.abb.com	ABB		X			
Guest	Interested Individ	Donald	Cantrelle	djcantre@southernco.com	Georgia Power					
Member	Manufacturer	Wes	Wadsworth	wesw@hvbi.com	HVB AE Power Systems, Inc.	X	X		X	
Guest	Interested Individ	Douglas	Giraud	doug.giraud@powellind.com	Powell Electrical Systems		X		X	
Guest	Interested Individ	Francis	Ricard	frank.ricard@firstpowergroupllc.c	FirstPower Group LLC			X	X	

Role	Type	First Name	Last Name	Email	Company	5/6/2009	9/30/2009	4/27/2010	9/28/2010	5/17/2011
Guest	Interested Individ	Li	Liu	liliu2@eaton.com	Eaton		X	X		
Guest	Interested Individ	Vincent	Marshall	vamarsha@southernco.com	Southern Company Services			X	X	X
Guest	Interested Individ	Carlos	Isaac	carlos.isaac@oncor.com	Oncor Electric Delivery		X			
Guest	Interested Individ	Shane	Ford	sford@nespower.com	Nashville Electric Service	X		X	X	X
Guest	Interested Individ	Raj	Nayar	raj.nayar@siemens.com	Siemens Energy Inc.	X				
Guest	Interested Individ	Sandeep	Zope	sandeep.zope@powellind.com	Powell Electrical Systems Inc.	X				
Guest	Interested Individ	Neil	McCord	neil.mccord@ieee.org	Southern States		X	X	X	
Member	User	Michael	Skidmore	mlskidmore@aep.com	AEP		X	X	X	X
Guest	Interested Individ	Bjorn	Lofgren	bjorn.lofgren@siemens.com	Siemens Energy			X	X	X
Guest	Interested Individ	Bernie	Dwyer	bernard.dwyer@peco-energy.com	PECO		X			
Guest	Interested Individ	Kresimir	Starcevic	kresimir.starcevic@kema.com	KEMA-Powertest, LLC		X			
Guest	Interested Individ	Hongbiao	Song	hsong@bechtel.com	Bechtel			X		
Guest	Interested Individ	Jon	Rogers	jon.rogers@siemens.com	Siemens			X	X	X
Guest	Interested Individ	John	Kelly	jkelly@usbr.gov	Beureau Of Reclamation		X			
Member	User	Gilbert	Carmona	gilbert.carmona@sce.com	Southern California Edison			X	X	X
Member	Manufacturer	Jiong	Zhang	jiong.zhang@meppi.com	MEPPI		X	X		X
Guest	Interested Individ	Richard	Burge	r.burge@southernstatesllc.com	Southern States LLC					X
Guest	Interested Individ	Cody	Brehm	cbrehm@atcllc.com	American Transmission Company				X	
Member	Manufacturer	Steven	Chen	stevenzchen@ieee.org	Eaton Corporation			X	X	
Guest	Interested Individ	Sushil	Shinde	sushil.shinde@us.abb.com	ABB Inc.			X		X
Guest	Interested Individ	Stephanie	Montoya	stephanie.montoya@sce.com	Southern California Edison			X		
Guest	Interested Individ	Ying	Liu	inna@zjtitan.com	Zhejiang Titan Composite			X		
Guest	Interested Individ	Ed	Burt	ed.burt@bchydro.com	BC Hydro				X	
Guest	Interested Individ	Dave	Collette	dave.collette@meppi.com	Mitsubishi Electric				X	
Guest	Interested Individ	Zachary	Smith	zach.smith@meppi.com	Mitsubishi Electric Power Products, Inc.					X
Guest	Interested Individ	Cornelius	Plath	cornelius.plath@omicron.at	Omicron electronics					X
Guest	Interested Individ	Stephen	Tyler	stephen.j.tyler@dom.com	Dominion					X
Guest	Interested Individ	Robert	Foster	robert.foster@megger.com	Megger					X

22 Members
14 Manufacturers
8 Users & Other

Members:	9	14	17	16	12
Guests:	10	16	20	21	15