

Minutes of Meeting – Fall 2013

PC37.100.2 Common Requirements for Testing of Capacitance Current Switching Devices

Hilton Palacio del Rio, San Antonio, TX USA

18 September 2013

Neil McCord, Chair

John Webb, Vice-Chair

Donnie Swing, Secretary

In the absence of the chair, the meeting was called to order by the secretary, Donnie Swing, at 10:15am.

The group was informed that the second session for PC37.100.2 would once again merge with the C37.66 meeting due to the interdependence of the two documents.

Introductions

- A record **12 of 17 members** attended. A quorum was present.
- **20 guests** attended.

Old Business

Minutes of the spring 2013 meeting in Galveston, TX were reviewed.

- Motion to accept minutes made by Antone Bonner, seconded by Frank DeCesaro, affirmed.

The secretary announced to the group the PC37.100.2 PAR expiration date of December 2014.

New Business

The secretary presented an agenda for the meeting.

The chair of WG C37.66, Harry Hirz, announced to the group that the PAR for his document states that it is based on the successful ballot of PC37.100.2.

Donnie Swing and Harry Hirz announced that both groups would need PAR extensions since they both expire in December of 2014. A 2-year extension was discussed.

Frank DeCesaro introduced the STLNA definition for preconditioning and its inclusion in test series.

- It was the general consensus of the group to break section 4.6 Preconditioning into:
 - o 4.6.1 Preconditioning for Fault-Interrupting Devices
 - o 4.6.2 Preconditioning for Non-Fault-Interrupting Devices

Frank also added that a test order exists, which he will provide.

The rating of C0 (C-zero) is generally desired by the group to be defined in this document due to its requirement that no multiple restrikes are allowed in an interruption.

- Kirk Smith referred to C37.09-1999:
 - o 4.10.1.2.1 General-purpose circuit breakers
 - o 4.10.1.2.2 Definite-purpose circuit breakers

It was decided that the section on synthetic testing (4.4.2.1) would be dropped from this document, and instead the document would refer readers to section 6.111 of IEC 62271-101.

Brian Roberts stated that the wording in Table 3 also is applicable to mixed gas (i.e. SF6 with Nitrogen).

Note c of Figure 1 regarding source impedance was reworded to use the values provided in this document under subclause 'a' of section 4.3.5.

Note 'd' in section 4.3.5 was discussed at length and was reworded to clarify validity at 60 Hz of tests performed at 50 Hz. John Webb referenced 4.10.3.2 of C37.09-1999. Harry Hirz referenced 6.1.4 of C37.66-2005.

Commitments

The secretary, Donnie Swing, will clean up the document discussed here and send it to the working group members for comment in no more than two weeks.

The working group members will make informal comments within two to three weeks of receipt of the draft from the secretary.

The document will be sent out for ballot upon the chair's review and disposition of all comments from the working group (approximately 6-8 weeks from the date of the meeting). During the ADSCOM subcommittee meeting there was a disagreement as to whether or not the subcommittee's approval was needed to move forward with a ballot. Just in case, a vote was taken which resulted in unanimous support for the balloting process.

Member and Attendance Information – PC37.100.2

Role	First Name	Last Name	Company	City	State	Country	10/11/2011	5/1/2012	10/2/2012	5/1/2013	9/18/2013
Chair	Neil	McCord	Southern States	Hampton	GA	USA	X	X	X	X	
Vice-Chair	John	Webb	ABB	Florence	SC	USA				X	X
Secretary	Donald	Swing	Powell Industries	Houston	TX	USA		X	X	X	X
Member	Roy	Alexander	RWA Engineering	Cranberry Twp.	PA	USA		X	X	X	X
Member	Ganesh	Balasubramanian	Eaton Corporation	Horseheads	NY	USA	X	X	X	X	X
Member	Stan	Billings	Mitsubishi Electric PP	Warrendale	PA	USA	X	X	X		X
Member	Antone	Bonner	Eaton	South Milwaukee	WI	USA				X	X
Member	Anne	Bosma	ABB AB	Ludvika	Other	Sweden				X	X
Member	Frank	DeCesaro	Cooper Power Systems	Franksville	WI	USA			X	X	
Member	Edgar	Dullni	ABB	Ratingen	Other	Germany		X		X	X
Member	Rick	Gavazza	Pacific Gas & Electric	Novato	CA	USA				X	
Member	Harold	Hirz	Thomas and Betts	Solon	OH	USA	X	X	X	X	X
Member	Brendan	Kirkpatrick	Southern California Edison	Westminster	CA	USA				X	
Member	Russell	Long	Retired, but affiliated with Eaton Corp.	Pittsburgh	PA	USA	X	X	X	X	X
Member	Peter	Meyer	S&C Electric Company	Chicago	IL	USA		X		X	X
Member	Tom	Mulcahy	Dominion	glen Allen	VA	USA		X	X	X	X
Member	Iulian	Profir	Rockwell Automation	Cambridge	AZ	Canada			X	X	X
Member	Robert	Smith	Eaton Corporation	Horseheads	NY	USA		X	X	X	X
Member	David	Stone	DTS Technical Services	Reading	MA	USA				X	
Member	Andrew	Swisher	Southern California Edison	Westminster	CA	USA				X	
Corresp. Member	Richard	Burge	Southern States LLC	Hampton	GA	USA	X				
Corresp. Member	Tom	Stefanski	Powertech Labs Inc	Surrey	BC	Canada					X
Guest	John Paul	Adigwu	Southern California Edison	Westminster	CA	USA				X	
Guest	Chris	Ambrose	Federal Pacific (Div. of Electro-Mechanical Corp.)	Bristol	TN	USA		X	X	X	X
Guest	Michael	Anderson	Retired	Madison	WI	USA					
Guest	Mauricio	Aristizabal	ABB	Pittsburgh	PA	USA					X
Guest	Roy	Ayers	Nashville Electric Service	Nashville	TN	USA					
Guest	Craig	Befus	Xcel Energy	Denver	CO	USA					

Guest	Robert	Behl	ABB	Lake Mary	FL	USA		X			X
Guest	Steven	Brown	Allen & Hoshall	Bartlett	TN	USA					X
Guest	Arben	Bufl	Hitachi HVB, Inc.	Suwanee	GA	USA				X	X
Guest	Eldridge	Byron	Schneider Electric	Smyrna	TN	USA			X		
Guest	Donald	Cantrelle	Georgia Power	Forest Park	GA	USA					
Guest	Gilbert	Carmona	Southern California Edison	Pomona	CA	USA		X	X	X	X
Guest	Michael	Christian	ABB	Lake Mary	FL	USA		X			
Guest	Lucas	Collette	Mitsubishi Electric	Warrendale	PA	USA					
Guest	David	Dart	NOJAPower	Brisbane	Other	Australia					
Guest	Patrick	Di Lillo	Consolidated Edison Co. of NY, Inc.	New York	NY	USA					X
Guest	Alexander	Dixon	Alex Dixon, Inc.	Randallstown	MD	USA					
Guest	Hernan	Figuroa	Hubbell Power Systems	Leeds	AL	USA					
Guest	Paul	Found	BC Hydro	Burnaby	BC	Canada					X
Guest	John	Hall	Tennessee Valley Authority	Chattanooga	TN	USA					X
Guest	Helmut	Heiermeier	ABB	Baden	Other	Switzerland			X		
Guest	Christian	Heinrich	Siemens AG	Berlin	Other	Germany					X X
Guest	Victor	Hermosillo	Alstom Grid	Charleroi	PA	USA					X
Guest	Reid	Herzog	OG&E	Oklahoma City	OK	USA					X
Guest	Luther	Holloman	Retired		VA	USA					X X
Guest	James	Houston	Southern Company Transmission	Birmingham	AL	USA					
Guest	Bill	Hurst	Alstom Grid	Charleroi	PA	USA					X
Guest	Todd	Irwin	Alstom Grid Inc	Smithville	MO	USA					
Guest	Carlos	Isaac	Oncor Electric Delivery	Fort Worth	TX	USA					X
Guest	Sandeep	Kulkarni	CG	MUMBAI	Other	India					X
Guest	Carl	Kurinko	ABB Inc.	North Huntingdon	PA	USA					
Guest	Daniel	Landreman	Cooper Power Systems	Franksville	WI	USA					
Guest	Wangpei	Li	Eaton	Horseheads	NY	USA					
Guest	Li	Liu	Eaton	Moon Township	PA	USA		X	X		
Guest	Gary	Martin	Entergy	Kenner	LA	USA					
Guest	Herbert	Martinez	Southern California Edison	Westminster	CA	USA					X X
Guest	Frank	Mayle	Technibus, Inc.	Canton	OH	USA		X	X	X	X
Guest	Dave	Mitchell	Dominion	Richmond	VA	USA					
Guest	Raj	Nayar	Siemens Energy Inc.	Heber Springs	AR	USA					
Guest	Jeffrey	Nelson	Tennessee Valley Authority	Chattanooga	TN	USA					X X
Guest	Thomas	Pellerito	DTE Energy	Detroit	MI	USA		X	X	X	X
Guest	Andrew	Peterson	ABB	Sanford	FL	USA		X		X	

Guest	Lise	Phan	Parcific Gas and Electric Company	Oakland	CA	USA				X	
Guest	Syed	Rahman	The United Illuminating Company	Orange	CT	USA		X	X		
Guest	Carl	Reigart	Hubbell Power Systems/USCO	Leeds	AL	USA			X		X
Guest	Anthony	Ricciuti	Eaton Corporation	Moon Township	PA	USA			X		
Guest	Brian	Roberts	Southern States, LLC	Hampton	GA	USA				X	
Guest	Marcelo	Rodrigues	CEPEL - Electric Energy Research Center	Nova Iguacu	Other	Brazil				X	
Guest	Carl	Schneider	Schneider Electric	Smyrna	TN	USA				X	
Guest	Sushil	Shinde	ABB Inc.	Mt Pleasant	PA	USA					X
Guest	Francois	Soulard	Hydro-Quebec	Montreal	QC	Canada					X
Guest	Erin	Spiewak	IEEE	Piscataway	NJ	USA				X	
Guest	Robert	Warren	KEMA Powertest	Chalfont	PA	USA					X
Guest	Xi	Zhu	GE Energy Management	Atlanta	GA	USA					X

<u>WG Participation Summary</u>	
Total	32
Members	12
Guests	20

Total:	6	19	20	36	32
Members:	5	8	9	8	12
Guests:	1	11	11	28	20