

REPORT of
SC17A MT47/IEEE WG C37.60 for the Revision of IEC 62271-111/IEEE C37.60-2003, Automatic Circuit Recloser Standard
(Calgary, Alberta Canada; October 14, 2008)

The Working Group for the revision of C37.60-2003 held its seventh meeting on October 14, 2008 at the Hyatt Regency Calgary Hotel in Calgary, Alberta, Canada between 8:00 AM and 4:30 PM.

The agenda was reviewed followed by introductions. The Chair welcomed Dr. Christian Heinrich (Germany), Dr. Leslie Falikingham (UK) and Mr. Harm Bannink (Netherlands) as members of the IEC MT and Ms Jodi Haasz from IEEE-SA Staff. Attendance included 25 members of the Dual Logo Maintenance Team and 15 guests. Five members of the DLMT were absent. Refer to Annex A for attendance list.

The Chair displayed and reviewed the IEEE patent policy and guidelines for the conduct of meetings (inappropriate topics of discussion).

Dual Logo Maintenance Team (DLMT) Timeline

Chairman Stone outlined the timeline for recent and pending goals for the WG/MT activities.

- A Committee Draft (CD) was circulated to the IEC National Committees for comment between June and September 2008. A total of 111 comments from nine countries were received exclusive of the IEEE comments which are included below.
- The ballot group for IEEE was formed in June and the 1st ballot conducted between July and August 2008. A total of 606 comments were received.
- IEC and IEEE comments were consolidated for review by the DLMT for the Calgary meeting
- Comments will be presented and discussed that IEC SC 17A meeting in Berlin, December 8-11, 2008
- A second Committee Draft (CD) will be prepared in the next months, ideally in time for review of the comments at the May IEEE Switchgear meeting in May, 2009.
- The target date for IEC Committee Draft for Vote (CDV) is July 2010.

Documents available on IEEE web site

All documents from the WG are posted on the IEEE web site. The Chairman updates the list as required. Last update was on October 20, 2008. The Web address, ID and password have been given to all Working Group members.

WG/MT47 Membership

There have been no changes to the membership of the Working Group and Maintenance Team. The chairman expressed his thanks to several members for their valuable help in

preparing the latest draft and assisting in the resolution of the comments. All members were asked to respond to requests for help or special assignments as the work proceeds.

Summary of the Comments on the CD Circulation

Organization	Total comments	General	Editorial	Technical
IEEE	606	39	162	405 Note 1
IEC	111	Comments exclusive of those submitted by IEEE; nine countries provided comments		

Note 1: Many of the technical comments were actually editorial in nature, but impacted a technical specification.

**Status of Comments prior to Calgary meeting
(Preliminary observations of the Chair)**

Organization	Resolved	Open
IEC	62	49
IEEE	454	152
Totals	516	201

Review of Comment:

The open comments were grouped into the 18 topics (or issues) for discussion at the WG/MT meeting. These topics are listed as follows:

- General-many changes made – What is overall impact?
- Definitions: Non-reclose, Accessibility
- Consideration of “drop-out” recloser
- Enclosure Integrity/Corrosion Protection
- Dated normative references
- Unit Operation – definition vague on open time
- Temperature rise: table 3 and auxiliary controls
- Compressed gas systems – should we include?
- Confidentiality on drawings
- Impulse voltage peak tolerance $\pm 3\%$ vs. $+3\%/-0\%$
- Review/update TRV requirements and other related questions
- Load switching vs. critical current test
- RIV testing – should we discontinue?
- IEEE 1247 – IEC equivalent

- Restrike-free and transient overvoltage
- Control elements SWC testing
- Qualifying reclosers with controls
- Table of tolerances – Annex E

In general, agreement was reached or guidance given on all of the issues. In some cases, more work needs to be done; for example, a few normative IEEE references do not appear to have direct IEC equivalents.

One exception to the statement above is the issue of the “drop-out recloser”. Some members consider Annex L to be an inappropriate addition to the recloser standard since it would not meet some of the specifications of the current standard as well as some historical “de facto” specifications. Both sides of this question presented arguments for and against the addition with further discussion from the WG members. No resolution on this issue was reached.

The PowerPoint presentation used during the meeting will be placed on the WG/MT web site for access by members. Two presentations on the drop-out recloser will also be posted.

The meeting adjourned at 4:15 PM.

David T. Stone
Working Group Chairperson, C37.60 and
Convenor for IEC MT47
Reclosers and Other Distribution Switchgear Subcommittee
October 21, 2008

Annex A: Attendance
IEC MT47/IEEE C37.60 Working Group Meeting October 14, 2008

First Name	Last Name	Company	Country	10/14/2008
Randall	Dotson	Lakeland Electric, City of Lakeland, FL	USA	excused
Chris	Ambrose	Florida Power & Light Company	USA	X
Herman	Bannink	KEMA Netherlands	Netherlands	X
Jerry	Baskin	Federal Pacific	USA	X
Craig	Befus	BC Hydro	Canada	X
Robert	Behl	ABB	USA	X
Antone	Bonner	Cooper Power Systems	USA	X
Raymond	Capra	Consultant	USA	X
Frank	DeCesaro	Cooper Power Systems	USA	X
Michael	Ennis	S&C Electric Company	USA	X
Mari	Estep	NV Energy	USA	X
Leslie	Falkingham	Vacuum Interrupters Limited	UK	X
Lawrence	Farr	Eaton Electrical	USA	X
William	Fernihough	Doble Engineering Co.	Canada	X
Marcel	Fortin	Hydro-Quebec Distribution	Canada	X
Kenneth	Gettman	NEMA	USA	X
Jeffrey	Gieger	Thomas & Betts	USA	X
Jodi	Haasz	IEEE	USA	X
Christian	Heinrich	Siemens	Germany	X
Harold	Hirz	Thomas and Betts	USA	X
Eric	Hounkpatin	Hydro-Quebec	Canada	X
Edward	Jankowich	Thomas & Betts	USA	X
Marc	Leclerc	Hydro-Quebec Research Institute	Canada	X
Brad	Luyster	Siemens Energy, Inc.	USA	X
Kamran	Majeed	ENMAX Power Corporation	Canada	X
Donald	Martin	G&W Electric Co.	USA	X
Frank	Mayle	TECHNIBUS, INC.	USA	X
Steven	Meiners	GE	China	X

Linda	Nowak	Doble Engineering Company	USA	X
Connie	Pascua	Pacific Gas & Electric Co.	USA	X
Larry	Putman	Powell Electrical Systems Inc.	USA	X
Timothy	Royster	Dominion Virginia Power	USA	X
Gerard	Schoonenberg	Eaton	Netherlands	X
Robert	Smith	Eaton Corporation	USA	X
Francois	Soulard	Hydro-Quebec	Canada	X
Edward	Steele	Thomas & Betts / Joslyn Hi-Voltage	USA	X
David	Stone	DTS Technical Services	USA	X
James	Swank	Cooper Power Systems	USA	X
Tim	Taylor	Thomas&Betts	USA	X
Nenad	Uzelac	G&W Electric	USA	X
Jan	Zawadzki	Powertech	Canada	X