

C37.62 – Fault Interrupters

September 21, 2015 – San Diego, CA Catamaran Resort



Chair: Antone Bonner

Secretary: Frank DeCesaro

Meeting Minutes

1. Call to order and introduction:

1:35 PM call to order. Roster Routed.

2. Roster Check:

Attendance included 20 Working Group members and 14 guests. . Refer to Annex A for the attendance list.

3. Previous Meeting Minutes:

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4. Meeting Highlights:

Focus of meeting was on the working group ballot responses for Draft 1 that came in since last meeting. The ballot comments were compiled and the spreadsheet sent to all WG members 9/21/15.

Special thanks to all the people that worked diligently over the summer on this standard.

169 comments: 106 editorials, 8 general and 55 technical.

Tom Stefanski requested that a PDF of Draft 1 be sent with the WORD document because there were differences in line number. PDF will be the same on all computers. Antone will keep this in mind for future drafts.

Comment Resolution:

- Comment #112:
 - 7.1.1 - Standards require certain ID information. Sometimes controls are just a printed circuit board.
 - Clause states “where applicable”. It was decided that the text was adequate.
- Comment #114:
 - This is tied from C37.60 that numbered to cover the C37.100.1 common clauses. We will remain this way but verify that it coordinates with common clauses.
- Comment #118:
 - Suggested to change to 2014 version of C57.12.28. We will update the standards.
- Comment #122
 - Table 1, delete item #5 – rated short time withstands current. Tabling a decision on this until additional input received from the commenter or others by October 5th.

- Comment #124
 - Add E1 or E2 rating for fault interruption – One has more capability than the other as in certain IEC standards. After must discussion a non-binding straw poll was taken.
 - Straw vote: a) Show of hands for maintaining Table 7 as it was in C37.60. (14 votes)
 - b) Show of hands for having the dual ratings as proposed (3 votes)
 - c) Abstain (1 vote)
 - This is not resolved today.
- Comment #130
 - IEEE 386 may be dropping dc testing from the standard. If dc testing is taken out in the revised standard, we will need to specifically cite the year of the current standard, i.e. we will put 2006 after IEEE 386 for a reference.
- Comment #136
 - Kpp of 1.3 First pole to clear factors – We may need to see what C37.60 resolves. Antone mentioned presentations were made at C37.60 explaining the issue. He will send it to this group.
- Comment #139, #140, and #141
 - TRV issues – T3 times for T20 are more severe than underground cable system would see. We will accept the recommendation for #139
 - TRV – Make the title of table 5 “Standard values of perspective transient recovery ...” and change the title for Table 3 – We will accept these recommended changes.
 - We also agreed that in table 3 and 4 after 4 kA wording we will add the words in overhead line connected systems.
- Comment #143
 - Contact erosion has not been a criterion to pass the standard operating duty test – This will be tabled. Antone will find out if table notes are informative or normative.
- Comment #153
 - 7.2.101 – evaluation should be defined or definition removed.- Tom Stefanski will propose wording for this.
- Comment #154
 - 6.2.5.2 of C37.60-2012, one for cutout mounted reclosers – other said if operating sequence allows open interrupter gap and a closed disconnect or gap then the interrupter gap alone shall be tested in addition to the open position test case – We will place the recommended sentence into 7.3.5.2.
- Comment #155
 - NSDD - Kirk Smith will research this. Antone will also talk to Dave Stone regarding this.
- Comment #158
 - Capacitive circuits, Table 13 gives us capacitive ratios for line and cable charging C1/C0 – Specify tolerances - We will say \geq for the values. Tom Stefanski will look into other standards to determine what the max tolerances should be.
- Comment #159
 - 7.103.2 – This is useful for defining that the operating duty covers this. Leave it in.
- Comment #160
 - Restrikes – Antone will send out the wording from C37.60 draft 5 to the group.
- Comment #161
 - Add details allowed on preconditioning – If we allow preconditioning before LC and CC should we allow before operating duty test? – We will table this. Scott Reed would like to review this some more.
- Comment #163

- Critical current Test – remove from standard – Antone will send information from C37.60 to the group to review. We will try to see if that is the way to go.
- Comment #164
 - Remove SSAO test – Remove from padmount or vault designs. Keep for overhead. Antone will do some additional review.
- Comment #165
 - Remove sequencing test – this does not apply to FI's. We will take it out.
- Comment #167
 - Bring back cutout mounted FI when we bring back the overhead fault interrupters. – We will do this.
- Comment #165
 - Remove gas and vacuum tightness – Karla will verify what has been in C37.74 and what was in 2003 have not been removed.

5. New Business;

none.

6. Next meeting:

Spring 2016 Switchgear Committee Meeting: April, 24-28, 2016 – Hilton Head, SC, USA

7. Meeting was adjourned at 5:40

Annex: Member Attendance

Role	First Name	Last Name	Company
Chair	Antone	Bonner	Eaton
Secretary	Frank	DeCesaro	Eaton's Cooper Power Systems
Member	Edward	Jankowich	Representing ABB/T&B
Member	Donald	Martin	G&W Electric Co.
Member	James	Swank	Cooper Power Systems
Member	Timothy	Royster	Dominion Virginia Power
Member	Francois	Soulard	Hydro-Quebec
Member	Chris	Ambrose	Federal Pacific (Div. of Electro-Mechanical Corp.)
Member	Jeffrey	Gieger	Thomas & Betts
Member	William	Walter	We-Energies
Member	Scott	Reed	S&C Electric Company
Member	Jerry	Baskin	Federal Pacific
Member	Chris	Lettow	S&C Electric Company
Member	Steven	Meiners	GE
Member	Wangpei	Li	Eaton
Member	Ben	Rosenkrans	Eaton Corporation
Member	John Paul	Adigwu	Southern California Edison
Member	Tom	Stefanski	Powertech Labs Inc
Member	Paul	Found	BC Hydro
Member	Nenad	Uzelac	G&W Electric
Member	David	Beseda	S&C Electric Co.
Member	Travis	Johnson	Xcel Energy
Member	Karla	Trost	G&W Electric
Guest	Peter	Glaesman	Reuel, Inc.
Guest	Harold	Hirz	Thomas and Betts
Guest	Alan	Peterson	Utility Service Corporation
Guest	Jon	Spencer	Thomas & Betts Hi-Tech
Guest	Landi	Carfi	RPM Electric, Inc.
Guest	Dustin	Sullivan	Hubbell Power Systems
Guest	William	Ernst	Thomas & Betts
Guest	Qian	Li	Powertech Labs INC.
Guest	Anil	Dhawan	ComEd
Guest	Kyle	Stromberg	G&W Electric Company
Guest	Michael	Whitney	S&C Electric Company
Guest	James	Ruebensam	S&C Electric Co.
Guest	Kevin	Wood	Southern California Edison
Guest	Sever	Bodea	ABB Inc

Submitted by: Antone Bonner

Date: October 8, 2015