

# MINUTES FOR C37.30.4 Working Group

San Antonio - September 17, 2013

## Greetings and Introductions

The working group met on Tuesday 9/17/13 for two sessions. A roster is included at the end of this document. There were 9 members and 12 guests in attendance.

## Old Business

Minutes of the S13 Meeting were reviewed and approved.

## New Business

- The attached comparison of content from IEEE 1247 and C37.30.4 D1 was reviewed.
- C37.30.4 D1 was distributed and reviewed on a line-by-line basis.
- Bill Hurst will distribute Draft 2 reflecting the output from the working group meeting.
- 8.1.1.2 – Pete Meyer will make a proposal to clarify the ambiguity of “most onerous conditions” and “significant current”.
- 8.1.1.3 – Bill Hurst will check with Ted Burse or others regarding references to C37.20 documents.
- 8.1.1.4 – Carl Reigart and Frank DeCesaro will make a proposal regarding manual operating speed.
- 8.1.1.5 – Frank DeCesaro and Chris Borck will make a proposal to clarify the frequency tolerances.
- 8.1.1.6 – Bill Hurst will check with Marcel Fontain or others regarding the test current exception for the 5% load switch.
- 8.1.2.1 – New Figure provided by Frank DeCesaro. Frank and Chris Borck will review TRV’s.
- 8.1.2.2 – Table 7 to be moved to C37.30.3

## Adjournment

The meeting adjourned at 5 PM.

Respectfully submitted,



Bill Hurst

C37.30.4 Working Group Chairman

## C37.30.4 Working Group

### Roster

First Name	Last Name	Organization	M/G	Present 9/17/13
Ganesh	Balasubramanian	Eaton	G	
Chris	Borck	Eaton – Copper Power	G	
Lee	Cox	Efalec	G	X
Frank	DeCesaro	Eaton – Copper Power	M	X
Glen	Dorsey	Siemens	G	X
John	Hall	TVA	G	
Kenneth	Harless	Pascor Atlantic	M	X
Gary	Haynes	ABB	G	X
Danny	Hoss	Southern States	M	X
Jim	Houston	Southern Company	M	X
Bill	Hurst	Alstom Grid	M	X
Dan	Konkle	Siemens	M	X
Pete	Kowalik	Cleveland Price	G	X
Matthew	Lawrence	Doble	G	
Gary	Martin	Entergy	G	
Ricardo	Martinez	CFE - LAPEM	G	X
David	McMullen	Southern Company	M	X
Peter	Meyer	S&C Electric	M	X
Parvin	Molson	Shaw Group	G	
Frank	Muench	Eaton - Cooper Power	G	
Tom	Mulcahy	Dominion	G	X
Alan	Peterson	Utiliserve	G	
Syed	Rahman		G	
Carl	Reigart	Hubbell Power Systems	M	X
David	Rhein	Teco Switch	G	
Ben	Rosenkrans	Eaton	G	X
Devki	Sharma	Entergy	G	X
Erin	Spiewak	IEEE	G	
Kyle	Stechschulte	AEP	G	X
Tom	Stefanski	Power Tech Labs	G	
Dustin	Sullivan	Hubbell Power Systems	G	X
Li	Wangpei	Eaton	G	X
Charles	Worthington	Hubbell Power Systems	G	X

### Test Code Comparison 1247 vs C37.30.4/D1

<b>IEEE 1247</b>	<b>C37.30.4/D1</b>
8.1 Withstand voltage tests	Not included
8.2 Continuous current tests	Not included
8.3 Switching tests	8.1 Switching tests included
8.3.1 General	8.1.1 General included
8.3.1.1 – 8.3.1.7	8.1.1.1 – 8.1.1.7 Included
8.3.1.8 Test sequence	8.1.1.8 Not included (moved to C37.30.3)
8.3.1.9 Unit testing	8.1.1.9 Unit testing included (simplify to C37.09)
8.3.2 Test duties	8.1.2 Test Duties included
8.3.2.1 Load-switching tests	8.1.2.1 Load-switching tests included
8.3.2.2 Loop-switching tests	8.1.2.2 Loop-switching tests included
8.3.2.2.1 Line or cable loop-switching	8.1.2.2.1 Line or cable loop-switching included
8.3.2.2.2 Parallel transformer loop-switching	8.1.2.2.2 Parallel transformer loop-switching included
8.3.2.3 Cable-charging switching tests	Not included
8.3.2.4 Line-charging switching tests	Not included
8.3.2.5 Unloaded transformer switching tests	8.1.2.3 Unloaded transformer switching tests included
8.3.2.6 Shunt capacitor switching tests	Not included
8.3.3 Condition of the switch during switching tests	8.1.3 Condition of the switch during switching tests included
8.3.4 Condition of the switch after the switching tests	8.1.4 Condition of the switch after the switching tests included
8.4 Short time withstand current tests	Not included
8.5 Fault-making current tests	8.2 Fault-making current tests included
8.6 Condition of the switch after each test of 8.3, 8.4 and 8.5	8.2.5 Condition of the switch after fault-making tests
8.7 Ice loading test	Not included
8.8 Mechanical operations tests	Not included
8.9 Corona tests	Not included
8.10 Radio-influence voltage tests	Not included
8.11 Partial discharge test	Not included
8.12 Production tests	Not included
Annex A – Altitude correction factors	Not included
Annex B – Load-switching TRV	Annex A – Load-switching TRV included
Annex C – Restrike-free performance	Not included
Annex D – Capacitive current switching	Not included