

High Voltage Circuit Breaker Standard Working Group
C37.04-1999 Corrigendum
Chair: Jeffrey Nelson
Minutes
Calgary, Alberta
14 October 2008

1. The meeting was called to order by the Chair, Jeffrey Nelson, at 8:00 am.
2. Introductions were made.
3. The IEEE Patent Slides were presented.
4. The comments from the recent ballot were discussed. There was only one negative comment, which was accepted by the WG. All the comments were addressed.
5. The Chair will revise the document based on the WG resolution to the comments and proceed with a recirculation ballot before the end of 2008. The only part of the document that will be open for comment in the recirculation will be Figure 4, which will be revised to address the negative comment. After the recirculation the Chair will submit the corrigendum to RevCom for final approval.
6. There will not be a need for a C37.04 Corrigendum WG meeting at the Spring 2009 meeting, but pending the completion of C37.06 and C37.04b there may need to be a first meeting to discuss the next full revision of C37.04.

Appendices

- A Ballot results
- B Comments with WG resolutions

APPENDIX A

PC37.04-1999-Cor_1 IEEE Standard Rating Structure for AC High-Voltage Circuit Breakers - Corrigendum 1

Ballot Open Date: 09-Sep-200809-Sep-2008 GMT

Ballot Close Date: 09-Oct-200809-Oct-2008 GMT

RESPONSE RATE

This ballot has met the 75% returned ballot requirement.

92 eligible people in this ballot group.

80 affirmative votes

1 negative votes with comments

0 negative votes without comments

0 abstention votes



81 votes received = 88% returned

0% abstention

APPROVAL RATE

The 75% affirmation requirement is being met.

80 affirmative votes

1 negative votes with comments



81 votes = 98% affirmative

Comment #	Name	Vote	Category	Page	Subclause	Line	Comment	Must Be Satisfied	Proposed Change	Resolution Status	Resolution Detail
1	Jones, Andrew	Approve	Editorial				Under "Notice to Users" several paragraphs concerning copyrights, updating of IEEE documents, and Laws are duplicated.	No	Eliminate duplicate text	Agree	Duplicated text removed.
2	Blalock, Frank	Approve	Editorial	7	5.15		incorrect grammer "...but including the connection to the supply voltage"	No	change but including to: and including or to: but excluding depending on the intended meaning	Revised	See comment 11
3	Messina, Don		Editorial				This draft meets all editorial requirements.	Yes		Met	Requirements met.
4	Dufournet, Denis	Approve	Editorial	43	5.9.4.3.3	21	The CIGRE guide is a called a technical brochure, the procedures are in technical brocgre 305	No	reword the last sentence as follows: The procedures for approaching very short lines are given in CIGRE technical brochure 305, october 2006 [B6] Adapt the text in [B5] and [B6] in the same way by replacing "document" by "technical brochure".	Not accepted	This comment was submitted in error. There is no page 43 or section 5.9.4.3.3 in the corigendum or the original document.
5	Chow, Chih	Approve	Editorial	2		5	For the strikethrough item n), it reads as [Rated out of phase] According to the third printing, 29 November, 2005 of C37.04-1999, ISBN 0-7381-1781-1 SH94774, it reads as [Out-of-phase]. So the word [Rated] has already been deleted in the third printing.	No		Agree	The word "Rated" is removed from the item n) strikethrough.
6	Chow, Chih	Approve	Editorial	2		5.3.2.1	Note 5 for Table 1. According to the third printing, [5 degree C] has already been corrected to read [50 degree C].	No		Not accepted	It was our intention to address all errors starting with Printing 1, because some people purchased that printing and may not know a second and third printing has been issued.
7	Chow, Chih	Approve	Editorial	5		5.9.2.1	Figure 4 The horizontal time axis for the graph, it reads [0.67 x T2] The third printing reads [0.6 x T2]. Is {0.67} a typo?	No	Should it be [0.6 x T2]?	Not accepted	The figure in the old issue of C37.04 is incorrect. The T2 multiplier at T60 is 0.67, not 0.6.
8	Chow, Chih	Approve	Editorial	6		5.9.2.3	According to the third printing, the bus surge impedance value has already been corrected to read [260 ohms].	No		Not accepted	It was our intention to address all errors starting with Printing 1, because some people purchased that printing and may not know a second and third printing has been issued.

9	Chow, Chih	Approve	Editorial				On page iii of the Introduction section. At the beginning of the fifth paragraph, it reads [This document make significant changes]. In the paragraph above this one, it mentioned Standard C37.04 in the order of 1964, 1999 and 1951 editions.	No	To avoid any confusions that may arise to a reader, it is recommended to add a few clarification words to read [This document, C37.04-1999, makes significant changes].	Agree in principal	Reworded to read "C37.04-1999 makes significant changes..."
10	Chow, Chih	Approve	Editorial				On page vii of the Introduction section. Three sections, Laws and regulations, Copyrights and Updating of IEEE documents appeared on both pages vi and vii.	No	Delete those three sections that were repeated again on page vii.	Agree	See comment 1
11	Burse, Ted	Approve	Editorial	7	5.15		The added sentence does not agree with C37.06 D8.8 which was recently balloted.	No	Change the words "measured at the circuit terminals of" to "measured at the point of user connections to"	Agree in principal	Reworded to read "measured at the point of user connection to the circuit breaker, including, if necessary, accessories supplied or required by the manufacturer to be installed in series with it."
12	Burse, Ted	Approve	Editorial	7	7.1		The title for 7.1 is incorrect.	No	Change "7.1 Operating mechanism requirements" to "7.1 Circuit Breaker" to agree with 7.1 of C37.04 - 1999.	Agree	Revised to "7.1 Circuit Breaker"
13	Bloethe, William	Disapprove	Technical	4			Figure 3 shows offset T1 for the rate of rise line and the TRV envelope. However, these two lines start at the origin rather than at T1. I will change my vote to approve after this is corrected.	Yes	Correct the figure to show the effect of the delay T1.	Agree	Figure has been corrected.
14	Liu, Hua	Approve	General	2			move "m)" to "j)" and re-number j) thru L). Right now i) refers to section 5.11, j) refers to section 5.15, but m) refers to section 5.12. Just want to refer to the sections sequentially.	Yes	move "m)" to "j)" and re-number j) thru L).	Not accepted	Section 5.12 for out-of-phase switching was listed last because this is an optional capability that has to be requested by the user and not a standard rating.

15	Mcbride, William	Approve	Editorial	1		When will the IEEE Standards revise the use of terms "High Voltage" and "Medium Voltage" to agree with the IEEE Standard 100 Definitions.	No	Change title to "Medium Voltage...."	Not accepted	First, this is a corrigendum correcting errors in an existing document, therefore the title of the document can not be changed. Second, this document covers more than just medium voltage. It covers circuit breakers rated up through 800 kV. Third, medium voltage is typically used to describe system voltage, not rated equipment voltage. In searching IEEE 100 I found four different defined ranges of voltages for the term medium voltage. So there is not one standard IEEE definition for it. The term high-voltage has been used many years in circuit breaker standards and it is well known. In future documents, the voltage range will also appear in the title but the title can not be changed for this corrigendum.
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