PC37.09b

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Type of Project: Modify Existing Approved PAR
PAR Request Date: 14-Oct-2009
PAR Approval Date: 09-Dec-2009
PAR Expiration Date: 31-Dec-2009
Status: Modification to a Previously Approved PAR for an Amendment C37.09-1999
Root PAR: PC37.09b **Approved on:** 07-Dec-2005
Project Record: C37.09

1.1 Project Number: PC37.09b
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis Amendment 2: To Change the Description of Transient Recovery Voltage for Harmonization with IEC 62271-100

Old Title: Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a
Symmetrical Current Basis -- Amendment 2: Transient Recovery Voltage
Requirements During Power Tests

3.1 Working Group: HVCB - Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis -- Amendment 2: Transient Recovery Voltage Requirements During Power Tests (PE/SWG/HVCB-WG_C37.09b)
Contact Information for Working Group Chair
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None

3.2 Sponsoring Society and Committee: IEEE Power & Energy Society/Switchgear (PE/SWG)
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4.1 Type of Ballot: Individual
4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 10/2009
4.3 Projected Completion Date for Submittal to RevCom: 01/2010

5.1 Approximate number of people expected to be actively involved in the development of this project: 50
5.2 Scope: PC37.09b amends C37.09, the test procedure, to be consistent with amendment PC37.04b, of the rating structure C37.04, in which the voltage / time envelopes that describes the Transient Recovery Voltage (TRV) is being changed to match the descriptions used in IEC 62271-100, the international standard that is applicable to the same type of equipment.
5.3 Is the completion of this standard dependent upon the completion of another standard: No
5.4 Purpose: This revision harmonizes the IEEE requirements for transient recovery voltage during power tests with those in IEC 62271-100. This is a continuation of an effort to harmonize requirements in the IEEE standards with those of IEC that first began in the 1950s. Broadly speaking, the functional requirements to be demonstrated in power testing are changed only slightly, whereas the manner in which the requirements are represented graphically is simplified considerably.
5.5 Need for the Project: The test procedures in C37.09 uses the TRV envelope in a several clauses and figures. This project will revise the clauses and figures that are

necessary to describe and show the new 2-parameter and 4-parameter TRV envelopes so that the test procedure C37.09b is consistent with the basic standard C37.04b. This change will benefit all parties concerned. The manufacturers will benefit since one set of tests will be applicable to both IEEE and IEC standards. Users and specifiers will benefit since a consistent method of application can be employed. The stakeholders are manufacturers of high voltage circuit breakers, users and specifiers of high voltage circuit breakers, and power test laboratories that test high voltage circuit breakers.

5.6 Stakeholders for the Standard: Circuit breaker manufacturers
Electric Utilities
IEEE SA

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

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7.1 Are there other standards or projects with a similar scope?: No

7.2 International Activities

a. Adoption

Is there potential for this standard (in part or in whole) to be adopted by another national, regional or international organization?: No

b. Joint Development

Is it the intent to develop this document jointly with another organization?: No

c. Harmonization

Are you aware of another organization that may be interested in portions of this document in their standardization development efforts?: No

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8.1 Additional Explanatory Notes (Item Number and Explanation): the modified PAR is being submitted to modify the title