

IEEE Switchgear, HVCB WG on the revision of IEEE PC37.06, “Draft: Standard AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis - Preferred Ratings and Related Required Capabilities for Voltages above 1000 Volts”

The IEEE PC37.06 WG met on 2008-10-13 in Calgary, Alberta to:

- discuss the draft 8.8 ballot results <sup>TM</sup>/D8.8
  - resolve outstanding negative ballot comments
1. Welcome and introductions of all participants. The WG meeting was attended by 53 participants (23 members)
  2. The WG Chair reviewed IEEE Policy on patents and Other Guidelines for IEEE WG Meetings
  3. The minutes of the WG meeting in Orlando were approved by the members of the WG.
  4. The ballot results for IEEE PC37.06<sup>TM</sup>/D8.8 were:  
Ballot Open Date: 23-Sep-2008 GMT  
Ballot Close Date: 03-Oct-2008 GMT

#### RESPONSE RATE

This ballot has met the 75% returned ballot requirement.

119 eligible people in this ballot group.

|          |                                 |
|----------|---------------------------------|
| 89       | affirmative votes               |
| 10       | negative votes with comments    |
| 0        | negative votes without comments |
| <u>4</u> | abstention votes                |
| 103      | votes received = 86% returned   |
|          | 3% abstention                   |

#### APPROVAL RATE

The 75% affirmation requirement is being met.

|           |                              |
|-----------|------------------------------|
| 89        | affirmative votes            |
| <u>10</u> | negative votes with comments |
| 99        | votes = 89% affirmative      |

5. Several issues were resolved, including:
  - The preferred values for special high TRV circuit breakers associated with transformer fed or transformer limited faults will be located in a normative Annex with a clause in the main body of the Standard directing those with a need for these special applications to the Annex. Locating these “Definite Purpose Circuit Breakers with Special TRV Requirements and Circuit Breakers for Transformer Limited Fault Applications” in an

Annex denotes the hierarchical relationship of these values to clauses in the main body. The Annex contains values that are under review by a CIGRE WG.

- The capacitor bank switching historical values of inrush current peak and inrush frequency for will be designated as the preferred values with alternate values for high current or inrush frequency being choices for the user of the Standard.
- The Tables related to S1 “Preferred ratings of prospective TRV for class S1 circuit breakers rated below 100 kV for cable systems non-effectively grounded. Terminal fault and Out of Phase Test duties. TRV representation by the two-parameter method.” and “Preferred ratings of prospective TRV for class S1 circuit breakers rated below 100 kV, for cable systems non-effectively grounded. T100, T60, T30, T10 Test Duties. TRV representation by the two-parameter method.” will be retained. This decision is in accordance with the decision several years ago (prior to 2004) whereby IEEE agreed to use the circuit breaker S1 (cable connected circuit breakers) values from IEC and the IEC agreed to use the circuit breaker S2 (overhead connected circuit breakers) values from IEEE. Several IEEE papers have been published on behalf of the Switchgear committee explaining the harmonization efforts between IEC and IEEE.
- Annex D will be deleted (circuit breakers with a voltage range factor  $K > 1.0$  are no longer used in this Standard; and “Rated line closing switching surge factors for circuit breakers specifically designed to control line closing switching surge maximum voltages, and parameters of standard reference transmission lines” are system values that cannot be tested as part of the circuit breaker rating structure.)
- Other inconsistencies, contradictory, editorial or formatting issues will be corrected.

W.J. (Bill) Bergman  
Vice chair C37.06 WG

for Georges Montillet  
Chair C37.06 WG