

Minutes of the meeting held in Las Vegas (NV) on Wednesday 29th, 2010 WG Revision of C37.011 – Guide for Application of TRVs for High-Voltage Circuit Breakers

The WG met with 16 members and 24 guests present.

The IEEE SA patent policies were presented and slides 1 to 4 were shown.

The aim of the revision is to align the content with the revised C37.06 and 04b and to improve other clauses such as those on line faults, transformer limited faults and series reactor faults.

Draft 6 was sent beginning of June to the mandatory editorial coordination (MEC)

The first ballot was done from July 2nd to August 8th.

The ballot group had 112 eligible people, 98 votes were received i.e. 87% returned that meets the requirement of 75%.

89 votes were affirmative, 92% affirmative meets the requirement, 7 votes were negative with comments, and there were 2 abstention votes.

Most of the comments were editorial. The main issue to resolve is the interpolation of TRV withstand capabilities for terminal fault short-circuit currents between 30% and 60% of rating. A choice will be made during the next meeting between the existing method of Draft 7 and an alternative method that will be studied in the meantime with u_1 constant in the 30%-60% range and equal to u_1 of T60 and T100s (RRRV is interpolated between values for T30 and T60, t_2 and u_c are defined as in draft 7).

The choice will be between

- the method of draft 7 that gives u_1 values that increase when current decreases, with values higher than 1 p.u. as obtained by former CIGRE studies (see slide 20),
- an alternative method with a constant value of u_1 equal to a theoretical value of 0.75 p.u. for an exponential part of TRV.

The discussion was stopped at slide 46 of the supporting document (see "WG PC37.011 meeting in Las Vegas 2010-09.ppt". The remaining comments will be considered during the spring meeting in Orlando.

Actions

- ◆ The supporting document (IEEE WG PC37.011 meeting in Las Vegas 2010-09.ppt) updated during the meeting will be distributed to WG members (Denis).
- ◆ Subclause 6.107 of IEC 62271-100 on critical currents will be sent to WG members (Denis).

- ♦ An alternative method to interpolate TRV withstand capabilities will be prepared for discussion during next meeting (Ken Edwards).

Denis Dufournet
Chair WG C37.011
September 30th, 2010