

MINUTES OF THE MEETING OF THE HVDC CONVERTER TRANSFORMERS & SMOOTHING REACTORS S.C. IN DALLAS, TEXAS, P.Q., MAR. 12, 2007

The HVDC Converter Transformers and Smoothing Reactors S.C. met on Mar. 12, 2007 at 1:45 p.m. in the Adams Meeting Room of the Hilton Dallas Lincoln Centre Hotel with 9 members and 8 guests present. One of the guests requested membership. The following are the highlights.

1. Introductions were made.
2. IEEE patent policy was reviewed and no issues were raised.
3. The minutes of the Montreal meeting of the S.C. were approved.

Note: The minutes of the Dallas meeting won't be approved until the meeting of the S.C. in Minneapolis, Minnesota.

4. The Chairman briefed S.C. members on the meeting of the Administrative S.C.
5. The Chairman stated that the invitation to ballot process for PC 57.129 had been initiated. The MEC response had been received from IEEE and circulated to S.C. members. The Chairman stated that he would prepare Draft #9 of the revision of IEEE C57.129 based on the MEC and any input from S.C. members re editorials. Draft #9 will be the version that will be submitted to formal IEEE ballot once the ballot group is formed.
6. The remainder of the S.C. meeting was spent discussing Draft #1 of the Revision of IEEE 1277 prepared by the Chairman. The following are the highlights discussed.
 - (i) Bill Chiu will be contacted re whether the revision will be given a C57 designation; IEEE C57.1277? Will the PAR have to be changed?
 - (ii) The Chairman requested input on Annex E that he drafted re the use of smoothing reactors in VSC HVDC schemes. Input was requested from Peter Heinzig, Pierre Riffon and Christoph Ploetner. Input will also be requested from Lars-Erik Juhlin and Ulf Radbrandt.
 - (iii) Resistivity or conductivity of transformer oil is critical. The content of Note 10 of Table 1 should be included in Clause 8.1 "General" of Section 8 "Tests". As for converter transformers it is crucial that the transformer oil used for the dielectric tests of oil immersed smoothing reactors should be of the same conductivity as the smoothing reactors will be filled with during service.
 - (iv) HQ have two new HVDC projects. Feedback will be available re the use of the existing version of IEEE 1277.

- (v) Annex D on overloads requires input from system designers and end users. Les Reckseidler will provide input and distribute to S.C. members for further input/comment.
- (vi) The current draft material re seismic is satisfactory. IEEE 693 is most appropriate for smoothing reactors although local regulations may require the application of building codes.
- (vii) Sound measurement was discussed. The “walk around” methodology uses an integrating sound level which was deemed to be the current most appropriate approach. It will be given preference with specific point measurement as an alternative. More background information and detailed methodology is required; Christoph Ploetner with assistance from Klaus Papp will provide input. Recent material on harmonics and filter reactors etc. developed for the revision of IEEE C57.16 will be reviewed for applicability.
- (viii) The Chairman agreed to produce Draft #2 prior to the next meeting of the S.C.

The meeting adjourned at 3:00 p.m.

R. Dudley

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