

MINUTES OF THE MEETING OF THE HVDC CONVERTER TRANSFORMERS & SMOOTHING REACTORS S.C. IN COSTA MESA, CALIFORNIA, MAR. 20, 2006

The S.C. met in the Balboa I Meeting Room of the Costa Mesa Hilton in Costa Mesa, California on Mar. 20, 2006 from 1:45 p.m. to 3:00 p.m. There were 10 members and 11 guests present. The following are the highlights of the meeting.

1. The minutes of the S.C. meeting in Memphis were approved. The minutes of the Costa Mesa meeting will not be approved until the S.C. meets in Montreal, Quebec.
2. IEEE patent policy was reviewed; details are on the IEEE Transformers Committee website. No patents affecting the revision process of IEEE C57.129 or IEEE 1277 were noted.
3. The Chairman reported on the meeting of the Administrative S.C. on Sunday, Mar. 19, 2006.
4. Consensus of the S.C. is that the revision process of IEEE C57.129 is complete. Seismic verification will be listed as "OTHER" test for converter transformers.
5. A PAR has been approved for the revision of IEEE 1277; oil-immersed and dry-type smoothing reactors. The remainder of the S.C. meeting was spent discussing revision objectives.
 - (i) RFD agreed to distribute a WORD version of IEEE 1277 to S.C. members to facilitate the revision process; selected S.C. members who have agreed to contribute to the revision process.
 - (ii) Seismic verification will be included in the revision of IEEE 1277 as "OTHER" test.
 - (iii) An informative annex will be added to IEEE 1277 re overloads and associated temperature rise test verification; similar to that included in the revision of IEEE C57.129. K. Papp and RFD will produce a draft for dry-type SMRs. Peter Heinzig will prepare a draft for oil-immersed SMRs; dissolved gas analysis will be included as well as other information from the annex on overloading in the revised converter transformer standard (IEEE C57.129).
 - (iv) Per Les Rickseidler gas-in-oil relay performance in oil immersed SMRs has been an issue under line fault conditions; false trip due to vibration. Les Rickseidler will solicit more input from the HVDC Users Group; extent of the problem.
 - (v) Per Peter Heinzig a Cigre W.G. (A2.28) has been set up to look into converter transformer failures and includes a review of polarity reversal especially as it

may relate to converter transformer failures; under consideration is a polarity reversal type test at twice the time duration of the current polarity reversal test.

- (vi) NOTES added to Clause 6.11.7 in the revision of IEEE C57.129 covering the polarity reversal test for oil-immersed SMRs should be added re the polarity reversal test description in the revision of IEEE 1277.
- (vii) NOTES added to Table 1 in the revision of IEEE C57.129 should be added to the test summary table in IEEE 1277 for oil-immersed SMRs.

RFD will produce Draft #1 of the revision of IEEE 1277 except as noted where S.C. members will provide draft material. The meeting ended at 3:00 p.m.

R. Dudley

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