

MINUTES OF THE MEETING OF THE HVDC CONVERTER TRANSFORMERS & SMOOTHING REACTORS S.C. IN TORONTO, ONTARIO, OCTOBER 26, 2010

On October 26, 2010, the HVDC Converter Transformers and Smoothing Reactors S.C. met at 1:45 p.m., in the Johnston Meeting Room of the Hilton Downtown Toronto Hotel, in Toronto, Ontario. There were 12 members and 21 guests present. The total membership of the SC is 24, but includes 3 corresponding members. Therefore there was a quorum. The following are the highlights of the meeting:

1. Introductions were made and the attendance list circulated.
2. The minutes of the Houston, Texas meeting were approved.

Note: The minutes of the Toronto SC meeting will not be approved until the SC meeting in San Diego.

3. IEEE patent policy was reviewed and no issues were raised.
4. The Chairman provided a synopsis of the Administrative SC meeting.
5. The Chairman reported that the revision of IEEE 1277 had been published. He thanked SC members for their help.
6. Mario Schenk made a PowerPoint presentation on his company's experience with 800 kV HVDC in China. This presentation will be posted on the Transformers Committee website with the minutes. The presentation provided part of the basis for ensuing discussions on future work of the SC.
7. Key discussions points on future work of the SC; especially future revisions of IEEE 1277 and IEEE C57.129 were:
 - i) In future revisions of IEEE 1277 and IEEE C57.129 material for 660 kV and 800 kV should be expanded, including test code.
 - ii) Should test voltages for the dc tests be standardized?
 - iii) Should information on field tests be included? The Chairman pointed out that SFRA testing was an option used by some utilities. IEEE C57.152 (field test guide) could also provide information. Testing of oil conductivity could also be a good field test.
 - iv) What BILs should be used for 800 kV?
 - v) Are there any test equipment limitations at 660 kV and 800 kV?
 - vi) Should dielectric test levels for 660 kV and 800 kV be based on standard margins vs standard levels?
 - vii) Should more informative tutorial information be included?

- viii) Some questions were tabled for future presentations/discussions. What happens if an 800 kV link is lost vs. the loss of a 500 kV link? Why is 660 kV or 800 kV used vs. 500 kV; cost or the bulk power transfer capability?
- ix) Is this polarity reversal test as it is now in the standard sufficient?

The Chairman requested that SC members prepare presentation material on future work for the San Diego meeting as a basis for discussion.

The meeting adjourned at 3:00 p.m.

Richard Dudley, Chairman

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