

TO: Members and Guests – WF Sound Level Measurement Guide

FROM: Jeewan Puri (Co Chairman)

DATE :February 23, 2007

SUBJECT: Attachments and Agenda for our next meeting on March 13, 2007 in Dallas, Texas.

Attached also are:

1. Minutes for our last meeting in Montreal, Canada.
2. IEEE Permission Request
3. Comments on the Revision of C57.12.90

The agenda for our next Working Group meeting in Dallas will be as follows:

1. Introduction of Guests and Members.
2. Discussion of IEEE Permission for PC57.151, Sound Level Measurement Guide for Liquid Filled and Dry Type Transformers and Reactors
3. Discussion of the attached comments on the revision of C57.12.90
4. New business
5. Adjourn.

Looking forward to our next meeting in Dallas.

Jeewan Puri

WG Sound Level Measurement Guide

**Meeting Minutes
Montreal, Canada
Tuesday, October 24, 2006
Chairman: Jeewan Puri**

Subject: WG for Writing Sound Level Measurement Guide – Meeting Minutes

- The WG met Tuesday at 3:15 PM with nine members and nine guests present.
- Jeewan Puri reported that Draft 4 of the sound level measurement guide has been finalized for balloting in the ASV SC. This draft is based on the technical content of the IEC User Guide. The text of this draft has been submitted to the IEEE for obtaining copy rights from IEC so that this document may be published under the joint ownership of the two organizations.
- Ramsis Girgis made a presentation on extensive sound level measurements that he has made comparing the sound intensity and sound pressure measurements. These results are in good agreement with measurements that were published by the Cigree working group in a paper on this subject.

These measurements show that:

- Sound Intensity is indeed a more accurate measure of sound level.
- The difference in the sound level measurements made with sound Pressure and Sound Intensity methods is approximately 3dB to 5dB.
- This difference is primarily due to errors in the sound pressure measurements due to sound reflections and the reactive power in the near field.

ASV SC has acted in a timely manner in introducing the sound intensity method in our test codes for liquid filled and dry type transformers.

Jeewan Puri