TO: Members and Guests - Audible Sound and Vibrations Subcommittee

FROM: Jeewan Puri (Chairman.)

DATE February 23, 2007

SUBJECT: Attachments and Agenda for our next meeting on March 14, 2007 in Dallas, Texas.

Dear SC Participants;

Attached are:

1. The minutes of our last meeting in Montreal, Canada for your review.
2. Survey for the Revision of C57.136- Sound Abatement Guide.

The agenda for our next Subcommittee meeting in Dallas is as follows:

1. Introduction of Guests and Members.
2. SC Chairman's report and comments.
3. WG Report on the comments on Draft 4 of Sound Level Measurement Guide
4. Survey on the revision of C57.136 – Sound Abatement Guide.
5. Status of Extended Sound Level Tables for Power Transformers
6. New Business
7. Adjourn.

I look forward to our meeting in Dallas.

Jeewan Puri

AUDIBLE SOUND AND VIBRATION SUBCOMMITTEE

Meeting Minutes
Montreal, Canada
October 26, 2006
Chairman: Jeewan Puri

- SC met Wednesday at 8:00 AM with eleven members and nine guests present.
- The WG for Sound Level Measurement Guide reported that Draft 4 of this guide is now ready for balloting in the SC. This draft is based on considerable amount of technical material from the IEC document on the same subject. Jeewan Puri is working with Jodi Haasz of the IEEE for resolving any copy right issues and finalizing the titles under which this document will be published.
    - Ramsis Girgis reported on the sound intensity measurements that he and his associates have made. They confirm the conclusion of earlier work done in Cigree that and conclude that
        1. Sound Intensity measurements are more accurate.
        2. Unless corrected Sound pressure measurement can differ as much as 5db due to measurement error.
        3. Discrete frequency sound level measurements can have even higher error.
        4. Sound Pressure Measurements in the near field can have error.
- The SC is going to review the final version of the extended table for standard sound levels for power transformers and approve it for inclusion in C57.12.00 for power transformers by our next meeting.
- Ramsis Girgis made a presentation on 50Hz/60Hz sound level conversion.
    1. The core noise difference between 50 and 60 Hz measurements is 3.6 dB.
    2. The winding noise difference between 50 and 60 Hz measurements is 4.6 dB.
    3. These differences can be higher due to mechanical resonances.

  A tutorial on this information will be included in the Sound level measurement Guide.

- Jeewan Puri will establish the schedule for the revision of Section 13 in the test codes C57.12.90 and C57.12.91 and report in the next meeting.

Meeting adjurned at 9:10 AM.

Jeewan Puri