

“AUDIBLE SOUND AND VIBRATIONS” SC

Meeting Minutes Houston, TX March 10, 2010 Chairman: Jeewan Puri

The subcommittee met at 9:30 am with 18 members and 32 guests present.

TF for Revising Section 13 of C57.12.90 and 91 (Ramsis Girgis –Chairman) : TF met Tuesday with 24 participants present. This task force is presently reviewing proposals for sound pressure and sound intensity measurements.

- Ramsis reviewed the following proposals in his Task Force meeting based on work done by him and his colleagues:
 - Allowing a maximum value of $(P - I)$ of 4 dB with no penalty
 - Allowing a maximum value of $(P - I)$ of 6 dB, but applying a penalty of 1 dB when $4 < (P - I) \leq 5$ and 2 dB when $5 < (P - I) \leq 6$

This proposal is presently being considered for inclusion in IEC standards also.

- Allow only 0.2 and 0.35 sound absorption coefficients concrete walls and walls covered with sound absorbing materials respectively for computing sound level correction due to reflections..
- Limit this correction to be no more than 4dB.

IEC standards do not wish to place a limit on the correction due to wall reflections.

- Discard the use of the equation given in the IEC standards for predicting if Load Noise measurements are necessary. Instead, these measurements should be made only when asked by the customer.
- Winding noise measurement at reduced current ratings.
- It was agreed that Ramsis Girgis may continue to discuss the next proposal in the Subcommittee meeting since it is important that his TF starts writing the text of Section 13 for balloting the TF members and then the ASV Subcommittee.
 - It was proposed that sound level measurements should be made at 1 or 2 meters from the transformer in order to avoid the error caused by the near field effects in the present measurements.
 - It was agreed that the measurement distance should be changed to 1 meter.
- Paul Jarman proposed that sound level measurement procedures should be identical to what is being proposed in the IEC standards. There is no reason why these standards cannot be identical.

- Ramsis Girgis pointed out the IEEE and IEC standards are produced through different processes and are therefore difficult to harmonize. After some discussion, it was agreed that Chris Ploitner and Ramsis Girgis will make every effort to harmonize these documents.
- **Next draft of Sound Abatement Guide C57.136 – Allen Darwin:** Allen reported that this guide will be due for revision in 2010. This work will be done only after Section 13 of the test standards have been modified. Allen Darwin will apply for a new PAR for the revision of this document.

There being no new business, the meeting adjourned at 10:45 am.

Jeewan Puri
Chairman - ASVSC