

**Minutes of Working Group Meeting IEC WG53 / IEEE PC 37.082
in Myrtle Beach on April 28th & 29th, 2010**

Chair / Convenor: Leslie T Falkingham

Title of Document: Standard methods for the measurement of sound pressure levels of outdoor circuit-breakers

- The meeting was held in conjunction with the IEEE Switchgear Committee meeting. There were 14 Members and 12 Guests.
- The first draft was balloted in IEC and IEEE:

In IEC	17A/905/CD
In IEEE	PC37.082_D2
- IEEE patents slide were shown by the Chair.
- The WG has a website on which information on the project is given: <http://17awg53.yolasite.com/>
- We have now received comments from the IEEE ballot and also the IEC CD. The goal of the meeting is to go through the comments, clause by clause, and make modifications to the document as necessary.

Review of Comments

2 not accepted. Each measurement has a specific purpose and it is not meaningful to combine them. Near field measurements are used for hearing protection studies, far field measurements are used for sound annoyance studies.

3 not accepted. Dual units are acceptable in IEC and IEEE. It is preferable to have rounded values in both unit systems and the rounding error is not significant for the measurement. A note will be added after Table 1 explaining this.

4 not accepted. The dual logo agreement for common development only applies to standards.

The WG proposes a new title: **Standard methods for the measurement of sound pressure levels of outdoor circuit-breakers (based on IEEE Std C37.082-1982).**

8 a note will be added to indicate that the document does not establish limit values of sound pressure levels.

9 a note will be added to indicate that the method maybe used for other switching devices by agreement between user and manufacturer, where appropriate.

10 covered by observation to # 4

11 not accepted, covered by #8

12 not accepted, we are not using IEC 60050-801

13 not accepted, it is necessary to perform a calibration before and after each test series, it may be performed simply in situ

14 accepted in principle, B is removed in 3.13 and 3.15, a definition of dBC will be added

16 not accepted (IEC rule)

- # 17 accepted
- # 18, 19 and 20 not accepted, the reference will be deleted
- # 21 accepted in principle. The second and third sentences will be moved to 6.1.3
- # 22 not accepted, the short time interval is not the 35 ms time constant
- # 23 not accepted, it is the correct technical term, the definition will be improved
- # 24 accepted in principle. The second and third sentences are transferred to notes
- # 25 impulsive noise wave will be used
- # 26 and 27 accepted
- # 28 accepted, the last two sentences will be moved to 4.1. The second sentence will be a note.
- # 29, 31, 32, 33, 34, 35, 36, 37, 38, 39, 41, 43, 44 accepted
- # 30, not accepted
- # 40 Accepted. If < 4 dB: no meaningful measurement can be made. If > 15 dB no correction is necessary.
- # 42 not accepted, dual units are acceptable. See observation to comment 3
- # 45 accepted, clause 3 is replaced by 3.13
- # 46 not accepted. The following text is added: if the sound meter is found to be out of calibration then that test series is invalid. This calibration may be performed in situ (secondary calibration).
- A definition of sound meter is added: the instrument (including the microphone) used to measure the sound pressure level.
- # 47, 48 the text is corrected, using text of the existing standard.
- # 49, 52 accepted
- # 50 not accepted, these items are specified within clauses 4 and 6
- # 51 partially accepted, the text will be modified.
- # 53 text is added at the end of the sentence: at the location where an operator would be standing
- # 54 see response to comment 3
- # 55 accepted, d and d' are introduced in the text and D_s is deleted.
- # 56 accepted, reference 6.7.2 is replaced by 6.5.2
- # 57, 59 accepted, reference to Figure 3 will be deleted

58, 61, 62, 63, 64, 65 accepted

60 see response to 56

66, 67 accepted in principle, exceptions to 6.1

68 not accepted. Issues raised cannot be answered by the WG. Concerning the title see response to comment 4

69 accepted

In Figures 1, 2, 3 locations are noted a, b, c and d, instead of A, B, C and D

70 to 74 accepted

75 accepted, "Sound pressure level measurements" is used

76, 78, 79, 81, 82, 83, 85, 86, 87, 89, 90 accepted

77, 80, 84, 88 corrected

91 accepted, 6.6 is replaced by 4 and 6

92, 94, 95 accepted in principle, reference to 6.2 or 6.3 as appropriate

93 accepted, reference is made to 6.1 and 6.2

96 accepted, reference to 6.1, 6.2 and 6.3 as appropriate

97, 98 accepted, refer to clauses 4, 5 and 6

99, 100, 101, 102 accepted, refer to clauses 4, 6

103, 104, 105 accepted

- The proposed numbering and title of the document by the WG was discussed during the meeting of the IEEE HVCB meeting on April 28th. A motion could not be voted upon due to lack of quorum. The position of the IEEE HVCB subcommittee will be defined by a vote organized by e mail.
- Next steps
 - The draft will be sent to IEEE (Jodi Haasz) and the Secretary of SC17A (Leslie)
 - The intention is to have a CDV that will be balloted in IEC and IEEE.