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AMENDMENT 1
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Acoustics — Noise emitted by machinery and equipment — Determination of emission sound pressure levels at a work station and at other specified positions applying approximate environmental corrections

AMENDMENT 1

Acoustique — Bruit émis par les machines et équipements — Détermination des niveaux de pression acoustique d'émission au poste de travail et en d'autres positions spécifiées en appliquant des corrections d'environnement approximatives

AMENDEMENT 1

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This document was prepared by Technical Committee ISO/TC 43, *Acoustics*, Subcommittee SC 1, *Noise*.

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Acoustics — Noise emitted by machinery and equipment — Determination of emission sound pressure levels at a work station and at other specified positions applying approximate environmental corrections

AMENDMENT 1

3.20, Note 2

Replace the note with the following:

"The work station can be located on the reference measurement surface, but this is not necessary. The reference measurement surface can be used to determine K_2."

3.21, Note 2

Replace the note with the following:

"For the purposes of this International Standard, the environmental correction, K_2, is used as an indicator to qualify the environment in 6.2 and is used to calculate the local environmental correction K_3 in A.2."

3.26

Replace the definition and Note with the following:

"mean distance from the work station to the closest major sound source of the machine under test, without screening objects protruding into the line of sight between the major sound source and the work station, given by:

$$d = \frac{d_2 + d_1}{2}$$

where

d_1 is the shortest distance from the sound radiating surface of the machine under test to the work station;

d_2 is the longest distance from the sound radiating surface of the machine under test to the work station"

12.5

In the Example, replace "sound power level" with "emission sound pressure level".

A.1.2, Equation (A.1)

Replace "(minimum 1 m)" with "(minimum 0,5 m)".

A.2.3

Add the following after the last paragraph:

"When measurements of both emission sound pressure and sound power are required, it can be expedient to use the same measurement surface in both cases. This is not a requirement; the optimum measurement surface for a sound power measurement (e.g. a hemisphere) is not always the best measurement surface for determination(s) of emission sound pressure level(s) around a machine.

NOTE Different measurement surfaces give different values for K_2 "

A.2.5

After Figure A.3, replace:

"The accuracy can be upgraded in some cases from 3 to 2 by"

with

"The accuracy can be upgraded in some cases from grade 3 to grade 2 by"

A.2.5

Replace the last sentence with:

"If this is not possible, determination in accordance with ISO 11204[18] can improve the accuracy."

C.4.2

Replace the title with:

"Contributions to the uncertainty, σ_{R0}, when the estimate of the local environmental correction, K_3, is based on a localized and well-defined sound-radiating area of the machine surface"

New C.4.3

Add the following after C.4.2, renumber the following equations and update cross-references accordingly:

"**C.4.3** Contributions to the uncertainty, σ_{R0}, when the estimate of the local environmental correction, K_3, is based on an approximate determination of the apparent work station directivity index

The general expression for the calculation of the final result of the emission sound pressure level measurement is identical to the formulation in C.4.2, with the addition of a term related to the apparent work station directivity index, $D_{\mathrm{I}\,\mathrm{op}}^{*}$, and replacing the contribution from the local environmental