

# ISO 14509-1:2008-10 (E)

## Small craft - Airborne sound emitted by powered recreational craft - Part 1: Pass-by measurement procedures

---

Contents		Page
Foreword .....		iv
1 Scope .....		1
2 Normative references .....		1
3 Terms and definitions .....		1
4 Symbols .....		3
5 Measurement quantity .....		3
6 Measurement uncertainty .....		3
7 Measuring equipment .....		5
8 Test site specifications and environmental conditions .....		5
9 Test course, microphone positions and measurement distance .....		6
10 Operating conditions .....		8
11 Test procedure .....		9
12 Test report .....		9
13 Standard craft specifications for outboard motor type tests according to Clause 10 .....	10	10
14 Standard craft specifications for type tests for stern drives with integral exhaust systems according to Clause 10 .....		11
Annex A (normative) Measurement of the sound exposure level .....		12
Annex B (informative) Example of test report form .....		16
Bibliography .....		18

### Figures

Figure 1 -- Position of the microphone and test course .....	7
Figure 2 -- Microphone position and heights .....	7

### Tables

Table 1 -- Standard deviation of reproducibility of individual sources of measurement .....	4
Table 2 -- Variability for a coverage probability of 90 % .....	4
Table 3 -- Correction for background sound pressure level, L <sub>pAS</sub> , for monitoring tests .....	6

<b>Table 4 -- Standard craft specifications .....</b>	<b>10</b>
<b>Table 5 -- Standard craft specifications for petrol engines .....</b>	<b>11</b>
<b>Table 6 -- Standard craft specifications for diesel engines .....</b>	<b>11</b>
<b>Table A.1 -- Standard deviation of reproducibility of individual sources of measurement .....</b>	<b>12</b>
<b>Table A.2 -- Variability for a coverage probability of 90 % .....</b>	<b>13</b>
<b>Table A.3 -- Correction for background sound exposure level, LAE, for monitoring tests .....</b>	<b>14</b>