

Amendment on 27 June 2024

Resolved by Technical Committee on 30 January 2024

Calibration of Equipment by the Code on Noise Levels On Board Ships

Object of Amendment

Rules for Approval of Manufacturers and Service Suppliers

Rules for the Survey and Construction of Steel Ships Part B

Reason for Amendment

The Society has already incorporated requirements for noise on board ships specified in the *Code on Noise Levels On Board Ships* (IMO Resolution MSC.337(91)) into Part B of its Rules for the Survey and Construction of Steel Ships and requirements for service suppliers carrying out noise measurements in accordance with the code into its Rules for Approval of Manufacturers and Service Suppliers.

The code makes reference to IEC standards as performance specifications for sound level meters and calibrators (hereinafter referred to as “instruments”) used for noise measurement and requires calibration of such instruments every two years.

Although service suppliers carrying out such calibrations are required to provide documentation (e.g. certificates) clearly stating that the calibration has been carried out in accordance with the appropriate standard (i.e. the standard to which the equipment conforms and the details of the results of the calibration) IACS has identified several calibration certificates that do not clearly indicate such information.

In response, IACS has drafted a unified interpretation (UI) requiring that the calibration of equipment carried out in accordance with the code be carried out in accordance with IEC standards that specify the procedures for the periodic testing of such equipment, and that the equipment be stamped or otherwise documented to show that it continues to maintain compliance with said standards. The draft UI was discussed at the 10th Session of Sub-Committee on Ship Design and Constructions (SDC10) held in January 2024 and was approved at the 108th Session of the IMO Maritime Safety Committee (MSC 108) held in May 2024.

Accordingly, relevant requirements are amended based on the aforementioned unified interpretation.

Outline of Amendment

- (1) Specifies that the calibration of instruments carried out in accordance with the Code on Noise Levels On Board ships is to be carried out in accordance with IEC 61672-3 for sound level meters and IEC 60942 Annex B for calibrators.
- (2) Specifies that the standards to which the sound level meters or calibrators referred to in (1) above comply are to be clearly indicated by either marks on the instrument itself or by entries in calibration records, together with the results of periodic tests and information on performance classes confirmed by the calibration.

Effective Date and Application

Effective date of this amendment is the date on which the unified interpretation for the calibration of sound level meters and calibrators subject to the Code on Noise Levels On Board Ships (IMO Resolution MSC.337(91)) enters into force.

ID: DX22-10

Amended-Original Requirements Comparison Table (Calibration of Equipment by the Code on Noise Levels On Board Ships)

Amended	Original	Remarks
<p align="center">RULES FOR APPROVAL OF MANUFACTURERS AND SERVICE SUPPLIERS</p> <p align="center">Part 3 REQUIREMENTS FOR APPROVAL OF SERVICE SUPPLIERS</p> <p align="center">Chapter 14 FIRMS ENGAGED IN MEASUREMENTS OF NOISE LEVEL ONBOARD SHIPS</p> <p>14.4 Equipment</p> <p>14.4.1 Equipment 2 Sound <u>calibrators</u> and sound level meters are to be verified at least every two years <u>in accordance with An 2.2.2, Annex 2.3.1-2, Part B of the Rules for the Survey and Construction of Steel Ships</u> by a national <u>standard</u> laboratory or a competent laboratory accredited according to <i>ISO 17025</i> (2005), as amended. A record with a complete description of the equipment used is to be kept, including a calibration log.</p> <p>14.5 Reporting to the Society</p> <p>14.5.2 Reporting A noise survey report is to be made for each ship. The report is to comprise information on the noise levels in the various spaces on board. The report is to show the reading at each specified measuring point. The points are to be marked on general</p>	<p align="center">RULES FOR APPROVAL OF MANUFACTURERS AND SERVICE SUPPLIERS</p> <p align="center">Part 3 REQUIREMENTS FOR APPROVAL OF SERVICE SUPPLIERS</p> <p align="center">Chapter 14 FIRMS ENGAGED IN MEASUREMENTS OF NOISE LEVEL ONBOARD SHIPS</p> <p>14.4 Equipment</p> <p>14.4.1 Equipment 2 Sound <u>Calibrators</u> and sound level meters are to be verified at least every two years by a national <u>Standard</u> laboratory or a competent laboratory accredited according to <i>ISO 17025</i> (2005), as amended. A record with a complete description of the equipment used is to be kept, including a calibration log.</p> <p>14.5 Reporting to the Society</p> <p>14.5.2 Reporting A noise survey report is to be made for each ship. The report is to comprise information on the noise levels in the various spaces on board. The report is to show the reading at each specified measuring point. The points are to be marked on <u>a</u> general</p>	

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<p>arrangement plan or on accommodation drawings attached to the report, <u>and</u> are to otherwise be identified. <u>Noise survey reports are</u> to be made in accordance with Form 1 of Annex B2.3.1-2, Part B of the Rules for the Survey and Construction of Steel Ships.</p> <p align="center">EFFECTIVE DATE AND APPLICATION</p> <p>1. The effective date of the amendments is the date on which the unified interpretation for the calibration of sound level meters and calibrators subject to the Code on Noise Levels On Board Ships (IMO Resolution MSC.337(91)) enters into force.</p>	<p>arrangement plan, or on accommodation drawings attached to the report, <u>or</u> are to otherwise be identified. <u>The noise survey report is</u> to be made in accordance with Form 1 of Annex B2.3.1-2, Part B of the Rules for the Survey and Construction of Steel Ships.</p>	

Amended-Original Requirements Comparison Table (Calibration of Equipment by the Code on Noise Levels On Board Ships)

Amended	Original	Remarks
<p>RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS</p> <p>Part B CLASS SURVEYS</p> <p>Annex 2.3.1-2 PROCEDURES FOR ON BOARD NOISE MEASUREMENTS</p> <p>Chapter 2 MEASURING EQUIPMENT</p> <p>An2.1 Equipment Specifications</p> <p>An2.1.1 Sound Level Meters Measurement of sound pressure levels is to be carried out using precision integrating sound level meters subject to the requirements of this chapter. Such meters are to be manufactured to <i>IEC</i> 61672-1(2002-05) type/class 1 standard as applicable, or to an equivalent standard acceptable to the Society.</p> <p>An2.2.2 Check of Measuring Instrument and Calibrator Calibrator and sound level meter (<u>hereinafter referred to as “instruments”</u>) <u>are</u> to be verified at least every two years by a national standard laboratory or a competent laboratory accredited according to <i>ISO</i> 17025 (2005) as corrected by (Cor 1:2006) <u>in accordance with (1) and (2) below.</u></p> <p>(1) Calibration is to be carried out in accordance with <i>IEC</i></p>	<p>RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS</p> <p>Part B CLASS SURVEYS</p> <p>Annex 2.3.1-2 PROCEDURES FOR ON BOARD NOISE MEASUREMENTS</p> <p>Chapter 2 MEASURING EQUIPMENT</p> <p>An2.1 Equipment Specifications</p> <p>An2.1.1 Sound Level Meters Measurement of sound pressure levels is to be carried out using precision integrating sound level meters subject to the requirements of this chapter. Such meters are to be manufactured to <i>IEC</i> 61672-1(2002-05) type/class 1 standard as applicable, or to an equivalent standard acceptable to the Society. <u>Class/Type 1 sound level meters manufactured according to <i>IEC</i> 651/<i>IEC</i> 804 may be used until 1 July 2016.</u></p> <p>An2.2.2 Check of Measuring Instrument and Calibrator Calibrator and sound level meter <u>is</u> to be verified at least every two years by a national standard laboratory or a competent laboratory accredited according to <i>ISO</i> 17025 (2005) as corrected by (Cor 1:2006).</p> <p>(Newly added)</p>	<p>Draft IACS Unified Interpretation</p>

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<p><u>61672-3 or the equivalent thereto for sound level meters and IEC 60942 Appendix B or the equivalent thereto for field calibrators. The edition of the calibration standard is to correspond with the edition of the manufacturing standard for the instruments.</u></p> <p><u>(2) Measurement companies are to provide documentation about the standards being met if not clearly marked on sound level meters or field calibrators, and such documentation or markings are to include a clear statement of the results of periodic tests and the performance class instruments meet after calibration.</u></p> <p>EFFECTIVE DATE AND APPLICATION</p> <p>1. The effective date of the amendments is the date on which the unified interpretation for the calibration of sound level meters and calibrators subject to the Code on Noise Levels On Board Ships (IMO Resolution MSC.337(91)) enters into force.</p>	(Newly added)	