INTERNATIONAL STANDARD

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Maritime navigation and radiocommunication equipment and systems – Global navigation satellite systems (GNSS) –

Part 4: Shipborne DGPS and DGLONASS maritime radio beacon receiver equipment – Performance requirements, methods of testing and required test results

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MARITIME NAVIGATION AND RADIOCOMMUNICATION EQUIPMENT AND SYSTEMS – GLOBAL NAVIGATION SATELLITE SYSTEMS (GNSS) –

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FOREWORD

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International Standard IEC 61108-4 has been prepared by IEC technical committee 80: Maritime navigation and radiocommunication equipment and systems.

The text of this standard is based on the following documents:

FDIS	Report on voting
80/394/FDIS	80/398/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

IEC 61108 consists of the following parts, under the general title *Maritime navigation and radiocommunication equipment and systems – Global navigation satellite systems (GNSS)*:

Part 1: Global positioning system (GPS) – Receiver equipment – Performance standards, methods of testing and required test results

Part 2: Global navigation satellite system (GLONASS) – Receiver equipment – Performance standards, methods of testing and required test results

Part 3: (To be used at a later date)

A bilingual version of this publication may be issued at a later date.

MARITIME NAVIGATION AND RADIOCOMMUNICATION EQUIPMENT AND SYSTEMS – GLOBAL NAVIGATION SATELLITE SYSTEMS (GNSS) –

Part 4: Shipborne DGPS and DGLONASS maritime radio beacon receiver equipment – Performance requirements, methods of testing and required test results

1 Scope

This part of IEC 61108 specifies the minimum operational and performance requirements, methods of testing and required test results conforming to performance standards not inferior to those adopted by the IMO in resolution MSC.114(73). In addition, it takes account of IMO resolution A.694(17) and is associated with IEC 60945. When a requirement of this standard is different from IEC 60945, the requirement in this standard shall take precedence.

This standard may be satisfied by equipment integral with GNSS equipment.

This standard is applicable to HSC.

All text of this standard, whose wording is identical to that in IMO resolution MSC.114(73) and ITU-R M.823 is printed in *italics* and the resolution (abbreviated to – 114 and M.823 respectively) and paragraph numbers are indicated in brackets i.e. (114/3.3 or M.823/3.3).

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60945, *Maritime navigation and radiocommunication equipment and systems – General requirements – Methods of testing and required test results*

IEC 61162-1, *Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 1: Single talker and multiple listeners*

IEC 61162-2, *Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 2: Single talker and multiple listeners, high speed transmission*

IMO Resolution MSC.114(73), *Revised recommendation on performance standards for shipborne DGPS and DGLONASS maritime radio beacon receiver equipment*

IMO Resolution A.694(17), *General requirements for shipborne radio equipment forming part of the Global Maritime Distress and Safety System (GMDSS) and for electronic navigational aids*

ITU-R M.823-2, *Technical characteristics of differential transmissions for Global Navigation Satellite Systems (GNSS) from maritime radio beacons in the frequency band 283,5 – 315 kHz in Region 1 and 285 – 325 kHz in Regions 2 and 3*