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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 24955.3-2010

**Ship and marine technology -- Transmitting heading devices
(THDs) -- Part 3: GNSS principles**

船舶和海上技术 艏向发送设备 (THDs) 第3部分: GNSS原理
(English Translation)

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Foreword

GB/T 24955 "Ships and marine technology - Heading transmitting device (THDs)" consists of three parts.

--- Part 1. Gyro compass;

--- Part 2. Geomagnetic principles;

Part --- Section 3. GNSS principles.

This part of GB/T 24955 "Ships and marine technology - Heading transmitting device (THDs)" Part 3.

This part identical with ISO 22090-3:2004 "Ships and marine technology heading transmitting device (THDs) - Part 3. GNSS Principle "(in English).

This section is equivalent translation ISO 22090-3:2004.

This part with respect to the ISO 22090-3 made the following editorial changes.

--- Preface and introduction are not included;

--- "This International Standard" word, the words "this section" in this section;

--- Reference standard in accordance with national standards for the corresponding adjustment;

--- Identification decimal "and" to ".";

--- Incorporates ISO 2005 to ISO 22090-3:2004 errata content;

--- Of expression in accordance with the provisions of GB/T 1.1-2000 made editorial changes.

This section of the Appendix A, Appendix B is an informative annex.

This part is proposed by the China State Shipbuilding Corporation.

This part of the National Standardization Technical Committee boat ocean nautical

instruments Technical Committee (SAC/TC12/SC5) centralized.

This section drafted by. China Shipbuilding Technology and Economy Research Institute.

1 Scope

This section GB/T 24955 specifies the "1974 International Convention for the Safety of Life at Sea," in line with the amended (SOLAS Convention) Article V Zhang requirements, the use of Global Navigation Satellite Systems (GNSS) principle as the transmission of information heading device structure, performance and testing.

Heading transmitting device (THD) is to provide a true ship heading information electronic devices.

In addition to compliance with the relevant standards IEC 60945 and IMO A.694 (17) provisions of the resolution of the general requirements and sensor components used outside, THD equipment shall meet the following minimum requirements.

If applied to the sensor means IMO performance standards not specified geographical area of operations, the THD operating range.

- a) The maximum rotational speed of 20 °/s; and
- b) at least 70 ° N ~ 70 ° S.

Comply with the requirements of SOLAS Chapter V heading THD for transmitting information shall comply with the provisions of this section.

In addition, THD should be consistent with "international HSC Code" (HSC Code) with the requirements of Chapter 13 applies to provide heading information Dynamic requirements apparatus.

Note 1: The heading information can be used to detect and transmit a variety of techniques. We will bow to detect and transmit respectively standardization is unreasonable. Thus, the series of standards ministries Points corresponding to different technologies, this section applies only to GNSS technology and other techniques corresponding to the other parts of this standard.

Note 2: In this section where citations IMOMSC.116 (73) resolutions were printed in italics.

2 Normative references

The following documents contain provisions which, through reference GB/T 24955 in this section constitute provisions of this section. For dated references, all subsequent amendments (excluding corrections) or revisions do not apply to this section, however, encourage an agreement under this section Parties to study the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

CB/T 3973-2005 Ships and marine technology - Positioning of magnetic compass on board

(ISO 694:2000, IDT) IEC 60945 Maritime navigation and radiocommunication equipment and systems - General requirements for the test results of the test methods and requirements IEC 61162 (all parts) Maritime navigation and radiocommunication equipment and systems - Digital interfaces IMO A.424 (XI) resolution gyro compass performance standards IMO A.694 (17) resolution as the Global Maritime Distress and Safety System (GMDSS) composed of marine radio equipment and electrical parts General requirements for sub navigation aids IMO A.813 (19) Resolution of all marine electrical and electronic equipment, electromagnetic compatibility (EMC) General requirements IMO A.821 (19) resolution high speed craft gyro compass performance standards IMO MSC.116 (73) performance standard resolution marine THDs HSC HSC international rules

3 Terms and Definitions

The following terms and definitions apply to this part of the GB/T 24955 of.

Heading

To enter any means heading to the THD of the ship.

Note: The vertical line projected by the ship's longitudinal direction to the horizontal plane of projection line defined. When it to true north, magnetic north and Luo north azimuth reference measurement, then divide