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**NATIONAL STANDARD OF THE
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**Ships and marine technology - Standard data for shipboard
machinery and equipment**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules for Standardization Documents" drafting.

This document identically adopts ISO 19848:2018 "Data Format of Shipboard Machinery and Equipment for Ships and Offshore Technology".

This document has the following minimal editorial changes.

- Adjusted the positions of the two paragraphs in Chapter 1;
- Add a note in Table 4 to explain the unit conversion relationship between feet and meters;
- Add references to Appendix B and Appendix C in 5.2.2a);
- Deleted "see 6.3b)" in the form of 7.5.2g);
- Change "*" in the tables of 7.4.2d), j) and 7.5.2b), e), f), g), h) to "-";
- Added references to Table C.2 and Table C.3 in C.4.2 and C.4.3 respectively.

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document describes how to name sensors, what data items are required, and how to describe said data.

This document applies to ship structures and shipboard machinery and is intended for the development of software for acquiring and processing sensor data from the aforementioned objects

personnel.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.

1) ISO 8601:2004 has been abolished and has been replaced by ISO 8601-1:2019 and ISO 8601-2:2019.

Note. GB/T 7408-2005 Data elements and exchange formats Information exchange date and time representation (ISO 8601:2000, IDT)

ISO /IEC 80000 (all parts) Quantities and units (Quantities and units)

W3C Recommendation]

mentation)

W3CXML Schema Part 2: Datatypes, W3C Recommendation (XML Schema Part 2: Datatypes, W3C Rec-

recommendation)

3 Terms and Definitions

The following terms and definitions apply to this document.

ISO and IEC maintain terminology databases for standardized use at.

3.1

alert data alert data

Indicates information on abnormal conditions of shipboard machinery and equipment.