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

GB/T 17751-2021

Replacing GB/T 17751-1999

**Survey-evaluation method of energy utilization for transport
ships**

运输船舶能源利用监测评价方法

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 17751-1999 "Methods for Monitoring and Evaluation of Energy Utilization of Transport Vessels". Compared with GB/T 17751-1999, Except for editorial changes, the main technical changes are as follows:

- Deleted the terms and definitions of ship fuel unit consumption and ship fuel unit consumption rate (see 3.4 in the.1999 edition);
- Added the terms and definitions of fuel consumption and ship energy efficiency operation index (see 3.3, 3.4);
- Modified the requirements of ship energy balance test (see 5.3, 5.3 of the.1999 edition);
- Added the revised calculation method of ship energy efficiency operation index (see 5.5);
- Added the classification of monitoring data acquisition methods (see Chapter 6);
- Added the requirements of energy-saving management for the Ship Energy Efficiency Management Plan (SEEMP) (see 8.1);
- Modified the energy-saving work effect evaluation index and energy utilization level

evaluation method (see 8.2, 8.3,

7.1 of the.1999 edition);

---Relevant requirements for monitoring agencies have been revised (see 9.1, 9.2,.1999 version of 9.1, 9.2);

--- Deleted content that has nothing to do with the monitoring agency (see 9.4 in the.1999 edition);

1 Scope

GB/T 17751-2021 is the Chinese national standard on survey-evaluation method of energy utilization for transport ships, in the field of services and company organization. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 21 May 2021 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 December 2021. Classification: ICS 03.220.40, CCS R06. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the energy-saving monitoring classification, monitoring requirements, monitoring methods, individual energy-saving monitoring and evaluation technical indicators, and comprehensive energy-saving monitoring of transport ships. Monitoring technical indicators and methods, energy-saving monitoring methods, monitoring institutions and monitoring reports. This standard is applicable to the monitoring and evaluation of energy utilization of transport ships.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated reference documents, the latest version (including all amendments) is applicable to this document.

GB 17167 General rules for the provision and management of energy measuring instruments for energy-consuming units

GB/T 27878 Technical conditions for the use of energy-saving marine products

ISO 8217.2017 Petroleum products fuel oil (Class F) Marine fuel oil specifications (Petroleumproducts-Fuels(classF)- Specificationsofmarinefuels] China Classification

Society "Ship Energy Consumption Distribution and Energy Conservation Guide"

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Energyutilizingconditionofthetransportships energyutilizingconditionofthetransportships
The actual energy consumption and energy consumption level reflected in the power plant, energy-using equipment and operation management of the transport ship.

3.2 The monitoring evaluation of the energy-utilizing conditions of ships Supervise, inspect, and test the energy utilization status of ships in accordance with the laws and standards on energy conservation of the country and relevant authorities Test, analyze and evaluate work.

Note. Also known as energy-saving monitoring and evaluation.

3.3 Fuel consumption The amount of fuel consumed by the ship at sea, in port, or during the voyage or time period under consideration, including the amount of fuel consumed by the main engine, auxiliary engines and other energy-consuming equipment The amount of all fuel consumed.

3.4 Ship Energy Efficiency Operation Index energyefficiencyoperationindex The amount of CO₂ emitted by the ship's unit transportation operations.

4 Energy-saving monitoring classification

4.1 Single energy-saving monitoring Monitoring and analysis of the energy consumption status of individual equipment or systems on ships.