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

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**Ballast water treatment system-Part 4: Discharge sampling
facilities and procedure**

船舶压载水处理系统 第4部分：排放取样装置和规程

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Foreword

This document complies with the provisions of GB/T 1:1-2020 "Standardization Work

Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting:

This document is Part 4 of GB/T 43330 "Ship Ballast Water Treatment System": GB/T 43330 has released the following parts:

- Part 1: Requirements;
- Part 2: Electrolysis;
- Part 4: Emission sampling devices and procedures:

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This document was drafted by: Qingdao Shuangrui Marine Environmental Engineering Co., Ltd., China State Shipbuilding Corporation Ltd: 704th Research Institute:

The main drafters of this document: Yu Lin, Wang Tingyong, Duan Dongxia, Zhang Xiaowen, Sheng Weiqun, Xu Fengqi, Song Jinjin, Fu Hongtian, Guo Yu, Zhang Xianfeng, Zhan Tingjun, Li Jie:

Introduction

According to the requirements of the International Convention for the Control and Management of Ships' Ballast Water and Sediments issued by the International Maritime Organization (IMO), ocean-going ships A ship's ballast water treatment system needs to be installed: GB/T 43330 "Ship Ballast Water Treatment System" is planned to be composed of three parts based on the technical characteristics of the product: composition:

- Part 1: Requirements: The purpose is to determine the classification of ship ballast water treatment systems and system design limitations, requirements, test methods, Installation requirements, inspection rules, packaging, transportation and storage:

- Part 2: Electrolysis: The purpose is to determine the classification, rated processing capacity and requirements of ship's ballast water electrolysis treatment system:

requirements, test methods, installation requirements, inspection rules, marking, packaging, transportation and storage:

- Part 4: Emission sampling devices and procedures: The purpose is to determine the purpose of sampling overboard discharge water from the ship's ballast water treatment system, Sampling devices, emission sampling procedures, data recording and sampling reports:

Ship ballast water treatment system Part 4: Emission sampling devices and procedures

1 Scope

This document specifies the sampling purpose, sampling device, and discharge sampling of overboard discharge water from the ship's ballast water treatment system (hereinafter referred to as the treatment system):

Sampling procedures, data records and sampling reports, etc:

This document is applicable to the sampling of representative samples of ballast water from the main ballast water overboard discharge pipeline of the ship:

2 Normative reference documents

GB 17378

GB/T 43121

ISO 7899

3 Terms and definitions

The following terms and definitions apply to this document: 3:1 During the sampling process of the ship's ballast water discharge main pipeline, it is used to classify and collect all ballast water samples and organisms of different sizes: device: 3:2 isokinetic sampling isokinetic sampling The water flow velocity at the inlet of the sampling probe is the same as the water flow velocity in the main pipeline: 3:3 Sub-isokinetic sampling sub-isokinetic sampling Sampling method in which the water flow velocity at the entrance of the sampling probe is not less than 0.25 times but less than the water flow velocity in the main pipeline: 3:4 Sampling probe sample probe Pipe fittings that introduce ballast water into the sampling device through the sampling interface:

4 Purpose of sampling

On the premise of not changing the biological concentration of ballast water and the physical and chemical properties of the water body, sampling probes of different pipe diameters are used to sample at isokinetic or sub-equal speeds:

The rapid sampling method is used to sample from the main ballast water discharge pipeline to achieve classified sampling of organisms of different sizes in the ballast water: