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

GB 18434-2022

Safety requirements for the operations of oil tankers in port

油船在港作业安全要求

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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 replaces GB 18434-2001 "Safe Operation Regulations for Oil Tanker Terminals". Compared with GB 18434-2001, except for structural adjustment In addition to editorial changes, the main technical changes are as follows:

---Changed the scope of application of the standard (see Chapter 1, Chapter 1 of the.2001 edition);

--- Deleted some terms and definitions (see 3.2~3.13, 3.15, 3.16, 3.17, 3.19, 3.21~3.33, 3.35 of the.2001 edition);

---Changed the definitions of oil tanker, dangerous area, bridging, receiving and stripping (see 3.1~3.5, 3.1, 3.14, 3.18, 3.20 of the.2001 edition 3.34);

---Deleted the technical requirements for safety of oil tankers and oil terminals (see Chapter 4 of the.2001 edition);

--- Changed the general requirements for oil tankers (see Chapter 4, Chapter 5 of the.2001 edition);

--- Deleted the general requirements for oil terminals (see Chapter 6 of the.2001 edition);

---Delete the requirement of arrival at Hong Kong (see Chapter 7 of the.2001 edition);

--- Added general requirements for loading and unloading operations, operational requirements for preparation before berthing, loading, unloading, unberthing and emergency stop (see 5.1~ 5.6);

- Added requirements for other operations such as inerting operations (see Chapter 6);
- Deleted the general precautions during the berth of the oil tanker (see Chapter 8 of the 2001 edition);

1 Scope

GB 18434-2022 is the Chinese national standard on safety requirements for the operations of oil tankers in port, in the field of services and company organization. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 29 December 2022 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 July 2023.

Classification: ICS 03.220.40, CCS R09. 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 document specifies the general safety requirements for oil tankers operating in port, safety requirements for loading and unloading operations, and other related operation requirements. This document is applicable to the operation of oil tankers in the waters under the jurisdiction of our country.

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.

GB 13348 Electrostatic Safety Regulations for Liquid Petroleum Products

GB/T 13386 Safety Technical Requirements for Open Flame Operations of Marine Operating Ships

GB 16993 Safety regulations for preventing dangerous operations caused by hypoxia in enclosed spaces of ships

GB/T 18819 Ship-to-ship oil transfer safety operation requirements

GB 39800.2 Specifications for Personal Protective Equipment - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

- 3.1 oil tanker Ships used to carry liquid oil cargoes in bulk (except petrochemicals).
- 3.2 dangerous areas dangerous areas An area on a tanker or wharf where a flammable gas atmosphere may exist.
- 3.3 Bridge bonding Use conductive metal components to connect adjacent metal parts together to ensure electrical continuity.
- 3.4 trim toppingoff According to the cargo oil tank reserved space plan, the loading operation of loading the cargo oil tank top space to the reserved space at the end of loading.
- 3.5 Stripping The operation of emptying bulk liquid cargo in oil tanks or pipelines.