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

GB 41847-2022

**Technical requirements of lightning protection and earthing in
ports**

港口防雷与接地技术要求

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Table of Contents

- 1 Scope
- 2 Normative references
- 3 Physical Damage to Buildings and Danger to Life

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 of Standardization Documents" drafted. Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents. This document is proposed and managed by the Ministry of Transport of the People's Republic of China. Port lightning protection and grounding technical requirements

1 Scope

GB 41847-2022 is the Chinese national standard on technical requirements of lightning protection and earthing in ports, 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 31 August 2022 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 March 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 requirements for port lightning protection and grounding, port towers, port outdoor loading and unloading equipment, oil and gas chemical terminals, port hazards Technical requirements for lightning protection and grounding of special cargo yards and silos, as well as technical requirements for lightning protection devices. This document is applicable to the construction of lightning protection and grounding of buildings (structures) and equipment and facilities in ports.

2 Normative references

The contents of the following documents constitute essential provisions of this document

through normative references in the text. Among them, dated citations documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

GB 15599 Lightning Safety Specification for Petroleum and Petroleum Facilities

GB/T 21431-2015 Technical specification for detection of lightning protection devices in buildings

GB/T 21714.3-2015 Lightning Protection Part

3 Physical Damage to Buildings and Danger to Life

GB 50057 Code for Lightning Protection Design of Buildings

GB/T 50064-2014 Design specification for overvoltage protection and insulation coordination of AC electrical installations

GB/T 50065-2011 Grounding design specification for AC electrical installations

GB 50074 Design Specification for Petroleum Depots

GB 50343 Technical Specification for Lightning Protection of Building Electronic Information System

GB 50650 Design code for lightning protection of petrochemical plants