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

GB/T 25444.5-2023

Replacing GB/T 25444.5-2010

**Mobile and fixed offshore units - Electrical installations - Part 5:
Mobile units
(English Translation)**

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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 5 of GB/T 25444 "Electrical Installations for Mobile and Fixed Offshore Installations": GB/T 25444 has been issued the following parts have been published:

- Part 1: General requirements and conditions;
- Part 2: System Design;
- Part 3: Equipment;
- Part 5: Mobile facilities;
- Part 6: Installation;
- Part 7: Hazardous areas:

This document replaces GB/T 25444.5-2010 "Electrical installations for mobile and fixed offshore installations - Part 5: Mobile installations", Compared with GB/T 25444.5-2010, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) The applicable limits of the scope have been changed (see Chapter 1, Chapter 1 of the:2010 edition);
- b) Changes in terms and definitions (see Chapter 3, Chapter 3 of the:2010 edition);
- c) Added requirements for ambient temperature, main switchboard and emergency switchboard handrails (see 4.1, 4:5 and 4:6), and changed waterproof requirements (See 4.2, 4:1 of the:2010 edition);
- d) Changed the requirements for facility inclination limits (see Chapter 5, Chapter 5 of the:2010 edition);
- e) Obstruction light requirements and special requirements for the use of LED lights have been added (see 7.2 and 7:5), and navigation light power supply and monitoring system requirements have been changed:
Seek (see 7.4,:2010 version of 7:5);
- f) The requirements for the rated working system have been changed (see 8.2:3, 8:2:4, 8:2:2:1, 8:2:2:2 of the:2010 edition); the motor starter has been changed Requirements (see 8.3,:2010 version of 8:3);
- g) Changed the technical requirements for electric propulsion (see Chapter 9, Chapter 9 of the:2010 edition);

- h) The DC propulsion system requirements are deleted (see 9.7:2:2 of the:2010 version);
- i) Added requirements for verification of dynamic positioning enhancement systems (see Chapter 10);
- j) The requirements for control and indication systems have been changed (see 11.3,:2010 version of 11:3), and the requirements for waterproofing of ballast systems have been added (see 11.5);
- k) The requirements for lifting systems have been changed (see Chapter 12, Chapter 12 of the:2010 edition);
- l) The requirements for propeller auxiliary mooring systems have been changed (see 13.4,:2010 version of 13:4):

This document is equivalent to IEC 61892-5:2019 "Electrical installations of mobile and fixed offshore installations - Part 5: Mobile installations":

This document has made the following minimal editorial changes:

---Additional information added in 3:1 and 3:5:

Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents:

Introduction

GB/T 25444 "Electrical Installations for Mobile and Fixed Offshore Facilities" aims to cover general requirements, system design, equipment, cables, mobile Facilities, installation and hazardous areas, etc., proposed designs for electrical equipment in mobile and fixed offshore facilities used for petroleum exploration or extraction:

Design, installation, maintenance and use requirements, applicable to pipelines, pumping stations or pipelines for drilling, production, accommodation, processing, oil storage and unloading in the offshore oil industry in-tube cleaning station, air compressor station and single buoy mooring facility:

GB/T 25444 is planned to consist of seven parts:

---Part 1: General requirements and conditions: The purpose is to provide for mobile and fixed offshore installations used for petroleum exploration or extraction General requirements for electrical installations:

---Part 2: System Design: The purpose is to specify systems for mobile and fixed offshore installations used in petroleum exploration or extraction Design requirements:

---Part 3: Equipment: The purpose is to specify the design of equipment for mobile and fixed offshore installations used in petroleum exploration or extraction: