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

**GB 17380-2020**

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**Regulation on aids to navigation for marking of offshore  
structures, China**

中国海区水中建（构）筑物助航标志规定

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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 17380-1998 "Regulations on Marking of Buildings (Structures) in Water in China Sea Areas": Compared with GB 17380-1998, except for The main technical changes outside of the editorial modification are as follows:

---Modified the definition of "buildings (structures) in the sea area" (see 3:1, 3:1 in:1998 edition);

--- Deleted the term and definition of "effective light intensity of rhythm light" (see 3:2 in:1998 edition);

---Added the terms and definitions of "important facilities on the periphery of offshore wind farms" and "intermediate facilities on the periphery of offshore wind farms" (see 3:2 and 3:3);

---Added overall requirements (see Chapter 4);

---Added the type, shape, color, and light quality requirements of the navigation aid signs that indicate the underwater construction (structure) groups in the sea area (see 5:1:2);

---Modified the requirements for the light range (see 5:1:3, 4:1:4 of the:1998 edition);

---Deleted the requirement for the light on time (see 4:1:5 of the:1998 edition);

--- Deleted the requirements for the installation of auxiliary lights (see 4:1:6, 4:1:8 and 4:2 in the:1998 edition);

---Modified the requirements for the setting of radio navigation aids (see Chapter 6,:1998

edition of 4:6 and 4:8);

---Modified the installation requirements for the height of the fog number (see 7:2, 4:3:1 of the:1998 edition);

---Relevant requirements for alternate fog numbers have been deleted (see 4:3:4, 4:3:5 and 4:3:7 in the:1998 edition);

---Added the requirements for the setting of navigation aid signs for offshore wind farms (see Chapter 8);

---Added other requirements for the setting of navigation aid signs (see Chapter 9);

## 1 Scope

GB 17380-2020 is the Chinese national standard on regulation on aids to navigation for marking of offshore structures, china, 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 17 November 2020 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 R63. 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 type, shape, color, light quality, and installation requirements of navigation aid signs used to indicate underwater structures (structures) in the Chinese seas: This standard is applicable to marking navigation aids installed in marine structures (structures) in sea areas with fixed positions in navigable waters in the Chinese seas: Sign: This standard does not apply to buildings (structures) specially set up as navigation aids, nor does it apply to cross-sea bridges:

## 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 references, the latest version (including all amendments) applies to this document:

GB 4696 Water Navigation Aid Marks in China Sea

## 3 Terms and definitions

The following terms and definitions apply to this document: 3:

1 Offshore structures A permanent or temporary building (structure) with a fixed location in the sea water: Such as drilling platforms, offshore wind farms, independent Wind turbine generators, wind measurement towers and meteorological masts, platforms for collecting marine hydrological data, etc: 3:

2 Significant peripheral structure of offshore wind farms Facilities at the corner points of the outer boundary of offshore wind farms or other important locations: 3:

3 Intermediate peripheral structure of offshore wind farms Facilities located in the middle of the corner points of the outer boundary of an offshore wind farm:

#### **4 General requirements**

1 The setting of navigation aid signs should be synchronized with the construction of underwater structures (structures) in the sea area: 4:

2 Navigation aids should be mainly visual navigation aids and radio navigation aids, and audio navigation aids should be set when necessary: 4:

3 The navigation aid sign should be able to indicate the location of the building (structure) and the range of the building (structure) group in the water in the sea area:

#### **5 Visual aids**

1 Lighting requirements 5:1:

1 One or multiple navigation aid signs that flash simultaneously should be set so that the ships navigating at night can approach the structures (structures) in the sea from any direction: At least one of the navigation aid lights can be seen: