ICS 47.020.01
CCS U 04

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 39215-2020

Ships and marine technology - Offshore wind energy - Supply chain information flow

Issued on: October 11, 2020 **Implemented on: May 1, 2021**

Issued by: State Administration for Market Regulation, China National Standardization Administration

Table of Contents

1 Scope 1
2 Normative references 1
3 Terms and definitions 1
4 Abbreviations 4
5 Supply chain process. planning, ordering and monitoring 4
5.1 General 4
5.2 Parts and components production 6
5.3 Inland and offshore transportation 6
5.4 Storage 8
5.5 Installation 8
5.6 Repair 9
5.7 Carrying frame and equipment retract 9
5.8 Demolition 9
6 Logistics information exchange based on EPCIS 10
7 Identification of participants, objects and elements 11
7.1 General 11
7.2 Responsibilities of Participants 11
7.3 Identification of participants and place of business 12
7.4 Parts and components 12
7.5 Transport carriers and machinery 13
7.6 Container 14
7.7 Unique identification code 14
8 Master data 15
9 Event data 16
9.1 General 16
9.2 General extension of event fields 16
9.3 Planning data 17
9.4 Command data 18
9.5 Logistics Event Message 19
9.6 Scalability and specific implementation design 21
10 Data format 22
11 Data carrier 22

11.1 General 22
11.2 Barcode 22
11.3 RFID 22
11.4 Other 23
Appendix A (normative appendix) XML schema for extensible fields 24
Appendix B (Informative Appendix) Example of Maritime Supply Chain Message 26
Reference 33

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

The translation method used in this standard is equivalent to ISO 29404.2015 "Ship and Offshore Technology Offshore Wind Energy Supply Chain Information Flow".

This standard has made the following editorial changes.

---Added article number in Chapter 6.

This standard was proposed and managed by the National Ocean Shipping Standardization Technical Committee (SAC/TC12).

Drafting organizations of this standard. China State Shipbuilding Industry Comprehensive Technology and Economic Research Institute, Beijing Institute of Petrochemical Technology, China State Shipbuilding Corporation

708 Research Institute, Fujian Xinneng Offshore Wind Power R&D Center Co., Ltd., Zichai Power Co., Ltd.

1 Scope

This standard specifies the logistics report for starting and controlling wind turbine (WTG) components from the supplier to the installation site during the installation and maintenance phase.

Text content and format.

This standard applies to all organizations involved in the production, transportation, storage and installation of WTG parts and related components.

This standard does not apply to substations.

The messages described in this standard only cover logistics operations. Therefore, this standard only involves part of the entire information flow.

This standard does not specify the technical realization applicable to information technology

(IT) products. This standard provides an information system based on the electronic code of the article

(EPCIS) standard method, and use the extension mechanism provided by the EPCIS standard to exchange offshore wind energy supply chain information

Bright. This standard aims to regulate the exchange of key logistics information. This standard specifies the basic information requirements of participants in the maritime supply chain and defines

A mechanism for exchanging this information through EPCIS. Because of the high degree of specialization of different maritime supply chains, participants can exchange information according to individual needs.

Seeking to establish a personalized mechanism. The low-level extensible EPCIS concept allows end users and industry alliances to expand and improve information exchange. These expansions

The development may exceed the basic information exchange specified in this standard.

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.

ISO 29400 Ships and Offshore Technology Offshore Wind Energy Ports and Offshore Operations

Article Electronic Code Information Service (EPCIS) Version 1.1 Specification

Core Business Vocabulary (CBV) GS1 Standard Version 1.1

3 Terms and definitions

The following terms and definitions defined by ISO 29400 apply to this document.

3.1

Automatic identification and data collection

A method of automatically identifying objects, collecting related data, and directly inputting the data into a computer system.

3.2

Bar code

A linear array is composed of bars that may vary in width, height, and vertical alignment, and the bars are separated by spaces that may vary in width.

The position and size of the indicates the code of a certain information.

Note. The barcode can be a one-dimensional barcode or a two-dimensional barcode, also called Aztec code.