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PEOPLE'S REPUBLIC OF CHINA**

GB/T 35484.2-2017

**Earth-moving machinery and mobile road construction
machinery -- Worksite data exchange -- Part 2: Data dictionary
(English Translation)**

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Foreword

GB/T 35484 "Exchange of site data for earth-moving machinery and mobile road construction machinery" is divided into two parts.

--- Part 1. System architecture;

--- Part 2. Data Dictionary.

This part is part 2 of GB/T 35484.

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

This section uses the translation method equivalent to the use of ISO 15143-2:2010 "transportation of earthmoving machinery and mobile road construction machinery site data Change Part 2. Data Dictionary." the Chinese documents that are consistent with the

normatively quoted international documents in this section are as follows.

--- GB/T 8591-2000 Earthquake machinery driver seat calibration point (eqvISO 5353.1995)

---GB/T 13000-2010 Information Technology Universal Multi-Octet Coded Character Set (UCS) (ISO/IEC 10646:2003, IDT);

--- GB/T 30965-2014 Determination of the average ground pressure of earth-moving machine crawler-type machines (ISO 16754:2008, IDT).

This part is proposed by China Machinery Industry Federation.

This part is under the jurisdiction of the National Standardization Technical Committee for Earthmoving Machinery (SAC/TC334).

This section is responsible for drafting. Xugong Group Construction Machinery Co., Ltd. Jiangsu Xuzhou Construction Machinery Research Institute, Guangzhou Electric Locomotive Co., Ltd.

Division, Shandong Yuangen Petrochemical Co., Ltd., Shandong Linggong Construction Machinery Co., Ltd., Xiamen Xiagon Machinery Co., Ltd., Tianjin Engineering Machine Institute of Machinery.

Participated in the drafting of this section. Guangxi Liugong Machinery Co., Ltd.

Introduction

The electronic data exchange at the construction site is rapidly becoming a key technology to promote industrial progress in the field of earthmoving machinery. From the manual number According to the collection method, it is converted to more automated data exchange and collection in order to improve workplace quality control. Electronic data exchange will enter Steps to assist in maintenance scheduling, strengthen the coordination of engineering tasks, construction management and daily operations on site, and provide for monitoring functions.

The implementation of an electronic data communication system requires the transmission of a data element that has already entered instructions and specifications. For use involving the use of application mode the unique data element specification for site communications should identify each of the data to be used. List of data elements compiled in data form in tabular form the code constitutes the part of GB/T 35484.

The purpose of building a data dictionary usually includes the following.

- a) improve the ability to share data elements in a particular domain or between different domains;
- b) Provides better semantic understanding and grammatical understanding of data elements;

- c) Manage data resources in order to maintain correctness and consistency of resources;
- d) Provides a basis for the consistency of data dictionary usage and the development of data dictionary software.

Earth-moving machinery and mobile road construction machinery Site data exchange - Part 2. Data dictionary

1 Scope

This part of GB/T 35484 specifies the data exchange data in the field data control construction work defined in GB/T 35484.1.

dictionary.

This section applies to site data exchanges for the purpose of services related to machinery (see Chapter 4 of GB/T 35484.1-2017).

Change, and give the definition of terms related to site data exchange.

The data exchange between different systems includes.

- The identification, definition and specification exchange of general data items on a typical earth-moving construction site;
- Definition of application block diagram;
- Metadata describes the attributes of each data element;
- Basic specification and its attribute data element (table form).

Note: Appendix A of GB/T 35484.1 describes the method of extending the data element table.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 18391.1-2009 Information Technology Metadata Registration System (MDR) Part 1. Framework (ISO/IEC 11179-1.

2004, IDT)

GB/T 18391.3-2009 Information technology metadata registration system (MDR) Part 3. Registration system metamodel and basic genus Sex (ISO/IEC 11179-3:2003, IDT) GB/T 23707-2009 Geographic Information Space Model (ISO 19107:2003, IDT) GB/T 35484.1-2017 Exchange of site data for earth-moving machinery and mobile road construction machinery Part 1. System architecture (ISO 15143-1:2010, IDT) ISO 5353:1995 Earth-moving machinery driver seat calibration points (Earth-moving machinery,

and tractors and machinery for agriculture and forestry-Seat index point) ISO 16754
Earth-moving machine-Determination for earth-moving crawler-type machines
(Earth-moving machinery-Determination)
Of average ground contact pressure for crawler machines) ISO/IEC 10646 Information
Technology Generic 8-bit Code Character Set
[Information technology-Universal Multiple-Octet Coded Character Set(UCS)]

3 Terms and Definitions

The following terms and definitions as defined in GB/T 35484.1 and GB/T 18391.1 apply to this document.

3.1 General rules

3.1.1

Information

Knowledge of objects (such as facts, events, things, processes, and ideas, including concepts) has specific meaning in certain situations.