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Replacing GB/T 7920.15-2003

Asphalt storage, melting and heating units - Terminology

沥青储存、熔化和加热装置 术语

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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 for standardization documents" Drafting.

This document replaces GB/T 7920.15-2003 "Terms for asphalt storage, melting and heating equipment" and is consistent with GB/T 7920.15-2003.

In addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) Added the term and definition of "asphalt depot" (see 3.1.1);
- b) The term and definition of "asphalt tank" have been changed (see 3.1.2, 2.25 of the 2003 edition);
- c) Deleted "asphalt storage silo", "above-ground asphalt storage silo", "underground asphalt storage silo", "semi-underground asphalt storage silo", "far infrared heating asphalt storage silo" "Storage silo" terms and definitions (see 2.1 to 2.4 and 2.10 of the 2003 edition);
- d) Changed the "medium pressure water heated asphalt tank", "steam heated asphalt tank", "gas heated asphalt tank", "thermal oil heated asphalt tank" Tanks, "electrically heated asphalt tanks", "solar heated asphalt tanks" terms and definitions (see 3.1.2.2~3.1.2.7, 2003 edition) 2.5~2.9, 2.11);
- e) Added "modified asphalt tank", "superconducting heat pipe heated asphalt tank", "tank-in-tank composite heated asphalt tank" and "fuel (gas) and conductive "Hot oil double heated asphalt tank" terminology and definitions (see 3.1.2.1, 3.1.2.8 to 3.1.2.10);
- f) The term and definition of "open flame heating type asphalt melting heating device" have

been deleted (see 2.15 of the 2003 edition);

g) Added the term and definition of "medium-pressure water-heating asphalt heating device" (see 3.1.3.5);

h) Changed the terms "asphalt heating device", "mobile asphalt heating device", "fixed asphalt heating device", "fire tube heating asphalt heating device" Device, "Steam Heating Asphalt Heating Device", "Thermal Oil Heating Asphalt Heating Device", "Flue Gas Heating Asphalt Heating Device" "Organic heat carrier heating device" terminology and definitions (see 3.1.3, 3.1.3.1~3.1.3.4, 3.1.3.6, 3.1.3.7, 3.1.4, 2003 Versions 2.12~2.14, 2.16~2.20);

i) Deleted "horizontal organic heat carrier heating device", "vertical organic heat carrier heating device" and "organic heat carrier coal-fired heating device" "Organic heat carrier oil heating device" terminology and definition (see 2.21 to 2.24 of the 2003 edition);

j) The terms and definitions of "asphalt pump", "asphalt valve" and "burner" have been deleted (see 2.26, 2.28 and 2.29 of the 2003 edition);

k) Changed the "asphalt pipeline", "asphalt tank capacity", "asphalt heating capacity", "asphalt temperature rise", "asphalt insulation capacity", "asphalt heating device" "Rated thermal power" terms and definitions (see 3.2.1, 3.3.1 to 3.3.5, 2.27, 2.30 to 2.34 of the 2003 edition);

l) Added the term and definition of "asphalt pumping system" (see 3.2.2);

m) The English translation of "heat transfer oil" in some terms has been changed (see 3.1.2.5, 3.1.3.6, 2.8 and 2.18 of the 2003 edition).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the China Machinery Industry Federation.

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This document was drafted by: Chang'an University, Fujian Tietuo Machinery Co., Ltd., Beijing Construction Mechanization Research Institute Co., Ltd., China Construction Machinery Industry Association.

The main drafters of this document are: Xie Liyang, Guo Fang, Gao Guoqiang, Ma Xiaoli, Zhang Chenguang, Song Jinyun, and Jie Wenzhong.

The previous versions of this document and the documents it replaces are as follows.

- First issued as GB/T 7920.15-1987 in 1987, first revised in 2003;
- This is the second revision.

1 Scope

This document defines the terminology for bitumen storage, melting and heating units.

This document is applicable to asphalt storage, melting and heating equipment for the construction of black pavement such as roads, airports, ports, etc.

2 Normative references

This document has no normative references.

3.1.1 Asphalt storehouse

Warehouses used for heating and storage of asphalt.

Note. Includes asphalt tanks of different capacities, heating systems, heating furnaces, oil and heat pipelines, pumps, valves, instruments, electrical systems, etc.

3.1.2 Asphalt storage tank

Asphalt storage container with heating and insulation functions.

3.1.2.1

Asphalt tank used to store modified asphalt and has stirring function.

3.1.2.2

Asphalt tanks use saturated water at medium pressure (1.0MPa~1.6MPa) as a heat carrier to heat asphalt.

3.1.2.3

Asphalt tanks that use steam as a heat carrier to heat asphalt.

3.1.2.4

An asphalt tank that uses the flue gas generated by fuel combustion outside the tank as a heat carrier to heat the asphalt.

3.1.2.5

Asphalt tanks that use thermal oil as a heat carrier to heat asphalt.

3.1.2.6

Asphalt tanks that use resistance heating elements to heat asphalt.