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PEOPLE'S REPUBLIC OF CHINA**

GB 25521-2010

Mine screening equipment - Safety requirements

矿用筛分设备 安全要求

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Foreword

Chapter 3 of this standard are recommended, the rest are mandatory. The standard proposed by China Machinery Industry Federation. This standard by the National Mining Machinery Standardization Technical Committee (SAC/TC88) centralized. This standard was drafted. Anshan Heavy Duty Mining Machinery Co., Ltd., Luoyang Mining Machinery Engineering Design Institute Co., Ltd., Zhejiang Mine Machinery Co., Ltd. The main drafters of this standard. Liu Chunyu, Huang Jialin, Daisu Jiang, Yang column, now Li Yang, Wang Guizhen, Guo Ming. This standard is the first release. Mine Safety requirements for screening equipment

1 Scope

GB 25521-2010 is the Chinese national standard on mine screening equipment - safety requirements, in the field of mining and minerals. 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 1 December 2010 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 October 2011. Classification: ICS 73.120, CCS D95. 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 list of dangerous mining screening equipment, safety requirements and/or measures and their determination to use the information. This standard is to limit the physical properties and intended use of the terms of the proposed mining screening equipment. Safety requirements specified in this standard apply In GB/T in 5.3a danger during the life of the machine described in the various stages produced 15706.1-2007). This standard does not relate to the hazard and GB/T 15706.1 and GB/T 15706.2 consistent. About general mechanical, electrical, hydraulic, Pneumatic and other dangerous devices are not included in this standard. This standard applies to mining screening equipment. It includes a vibrating screen, grate and rotary screen (hereinafter referred to as screening equipment)

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB 2894 Safety Signs and use guidelines

GB/T 3766 Hydraulic System General technical conditions (GB/T 3766-2001, eqv ISO 4413.1998)

GB 3836.1 Electrical apparatus for explosive gas atmospheres - Part 1. General requirements (GB 3836.1-2000, eqv IEC 60079-0. 1998)

GB 4053.1 fixed ladders and platforms - Safety requirements - Part 1. Steel ladders

GB 4053.2 fixed ladders and platforms - Safety requirements - Part 2. Steel LADDER

GB 4053.3 fixed ladders and platforms - Safety requirements - Part 3. Industrial guardrails and steel platform

GB 4351.1 Portable fire extinguishers - Part 1. Performance and structural requirements

GB 5226.1 mechanical and electrical safety of machinery - Electrical equipment - Part 1. General requirements (GB 5226.1-2008, IEC 60204-1.2005, IDT)

GB/T 5748 Workplace air dust measurement method

GB/T 7932 General technical conditions of pneumatic systems

GB/T 8196 mechanical safety devices fixed and movable guards General requirements for the design and manufacture (GB/T 8196-2003, ISO 14120.2002, MOD)

GB/T 9969 General Instructions industrial products GB/T 13306 signs

GB/T 13325 basic norms noise machinery and equipment operator position radiation noise measurement (engineering grade)

3 Danger List

Screening equipment lifetime risk that may arise in the construction, transportation, installation, use, maintenance and removal process are shown in Table 1. Table

4 Friction abrasions

5 high pressure, high temperature or corrosive liquid jet Projectiles and material discharge

6 7 person slips, trips, falls or falling off a ladder or platform

9 static phenomenon

10 and the high temperature of the surface contact and heat radiation Or scald burns caused by hot material 11 12 working environment too hot or too cold 13 noise hazard 14 contact or inhalation of harmful fluids, gases, mists, fumes and dust 15 fire or explosion

4.1 General Requirements

4.1.1 The intended use of screening equipment safety measures should be consistent with GB/T 15706.1 and the relevant requirements of GB 18152.

4.1.2 If the cold, dangerous hot surface contact, should be equipped with protective devices.

4.1.3 tubes, hoses and fittings shall withstand. Hose working pressure should be marked. To prevent the tube or hose burst, in the vicinity of the operating position Hoses or pipes should be installed shield.

4.1.4 might close screening equipment mechanical part should not be friction abrasions or "scraping hook", the sharp edges, corners and protruding parts The design should be consistent with the provisions of GB/T 15706.2 of.

4.1.5 screening around the unit should allow sufficient space for operation and maintenance.

4.1.6 screening equipment shall be ergonomically designed to enable operators to reduce labor intensity, to avoid fatigue.

4.1.7 To protect the safety of personnel, the operator should wear protective work gloves, wear safety shoes with other protective equipment.

4.1.8 shaker vibration during starting and stopping large, to avoid hydraulic hose connected to the vibration source and non-point vibration between fixed or soft power Cable pull off or kink rupture, its installation length should allow sufficient margin.

4.2 Non-electrical hazardous area

4.2.1 vibrating screen at startup and shutdown can lead to compression and impact, people should stay away from the shaker at least 1m. Importers should be located on the platform Li "caution" warning flags that should meet the requirements of GB 2894. Between the hopper and other non-vibrating shaker body should have at least 50mm distance.

4.2.2 rotary screen fence shall be established, to avoid entanglement injury.

4.2.3 screening equipment installed at the top of the overall project structure, in order to avoid slipping, falling, should set the platform fence in place Bars and stairs.

4.3 Material and/or parts of the projectile

4.3.1 screening equipment side guard height should be properly designed, installed, or shield in the upper part of the screen box, in order to prevent the material shot out of the screen box.

4.3.2 In order to prevent the occurrence of parts or exit wound accident, the outer rotor and transmission components and screening equipment to be provided protection.

4.4 machine and foundation stability To avoid equipment vibration on the basis of the harm, the natural frequency of the foundation should be greater than the operating frequency of 10 times.

4.5 Security guards

4.5.1 In order to avoid personnel within reach harm, danger zone should be set protection. Protective device shall comply with GB/T 15706.2 And GB/T 8196 requirements.

4.5.2 Working platforms and gangways shall comply with the safety requirements of GB 17888.2.

4.5.3 stairs, ladder and guardrail safety requirements should be consistent with GB 17888.3 requirements. Fixed steel ladders