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

GB 25519-2010

Feeders for mineral processing - Safety requirements

矿用给料设备 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. Luoyang Mining Machinery Engineering Design Institute Co., Ltd., Zhejiang Mine Machinery Co., Ltd. The main drafters of this standard. Huang Jialin, Daisu Jiang, Li

Yang, now, Liu Hua, Guo Ming, Wang Guizhen, Wang Yadong. This standard is the first release. Mine feeding equipment safety requirements

1 Scope

GB 25519-2010 is the Chinese national standard on feeders for mineral processing - 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 D96. 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 mine feeding equipment, safety requirements and/or measures and their determination to use the information. This standard is to limit the physical properties and intended use in terms of mine feeding equipment proposed. Safety requirements specified in this standard apply Dangerous various stages of the life of the machine resulting in GB/T 15706.1-2007 in 5.3a) requirements. 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 mineral processing equipment to the plate continuously and evenly assigned material feeder, belt feeder, chain feeder, to Duplex feeder, disc feeder, screw feeder, scraper feeder and vibrating feeder (hereinafter referred to as feeding 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 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 8196 mechanical safety devices fixed and movable guards design and manufacture of general requirements (GB/T 8196- 2003, ISO 14120.2002, MOD)

GB/T 8419 moving machinery - Seat vibration laboratory evaluation (GB/T 8419-2007, ISO 7096.2000, IDT)

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

GB/T 13325 basic principles of machines and equipment operator position noise radiated noise measurement (engineering grade)

GB/T 15706.1-2007 Safety of machinery - Basic concepts, general principles for design - Part 1. Basic terminology, methodology (ISO 12100- 1.2003, IDT)

3 Danger List

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

4.1 General Requirements

4.1.1 Security measures for feeding equipment intended to be used should be consistent with the relevant requirements of GB/T 15706.1 of.

4.1.2 feeding equipment shall be ergonomically designed, so as to reduce labor intensity, to avoid operator fatigue. The operator should work Required to wear safety equipment and other personal protective equipment.

4.1.3 If the hot and cold surfaces in contact with danger, these surfaces should be equipped with guardrails or covers. Sharp edges, corners and protruding parts of the design should meet Co GB/T 15706.2 requirements.

4.1.4 tubes, hoses and fittings shall withstand. Hose working pressure should be marked. Hose or tube near the operating position when necessary security Mounted shields, tube or hose burst avoid injury to the user.

4.1.5 into the operation and maintenance of the position of the channel device shall comply with GB/T 17300 of. Such as. doors, windows, the entrance can be opened or closed freely Closed in the "on" and "off" state should be safe.

4.1.6 to around feeding equipment should allow sufficient space for operation and maintenance.

4.1.7 In exceptional cold temperature environment, the operator shall be protected.

4.2 Operating location requirements

4.2.1 feeding equipment exposed to dust, noise or harsh environments, the operating room should be set to protect the operator. Operating room environment Staff did not respond to the danger.

4.2.2 operating position should be able to prevent dangerous projectile material produced for feeding, discharging and transportation and other processes should take the necessary protective measures.

4.2.3 operating position should be quick and easy access and good visibility, ensure staff do not pose a danger.

4.2.4 operating room door opening direction should enable the operator in the event of danger quickly leave the operating room.

4.2.5 main operating room noise should not exceed 85dB (A), and should be GB/T 13325 for testing.

4.2.6 main operating room should take the necessary damping measures, the weighted root mean square acceleration correction value at their seats should not exceed 1.25m/s², Vibration test reference GB/T 8419 method.

4.2.7 Main operating room should be equipped with an air purification device dust concentration should not exceed 2mg/m³. Dust concentration should be GB/T 5748 of Predetermined detection.

4.2.8 main operating room illumination shall meet the requirements of 4.12.2. Nearby

4.2.9 operating position should not have flammable, explosive materials, materials, operating room should meet the fire safety requirements of 4.13.1.

4.2.10 feeding equipment working platform guardrails should be installed to prevent people from dropping.

4.3 Control System Requirements

4.3.1 feeding equipment control system safety should be consistent GB/T 16855.1 requirements.

4.3.2 Each piece of equipment should be set to total stop switches, each operating position should have an emergency stop device to prevent the risk of emergencies caused.

4.3.3 power supply is interrupted or re-supply interruption, can only be restarted by manual