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

GB 30756-2014

Safety specification for nickel smelt production

镍冶炼安全生产规范

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Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 4 Basic Safety Requirements
 - 4.1 Employees
 - 4.2 Management System
 - 4.3 Operating environment
 - 4.4 Security identity
 - 4.5 Other Requirements
- 5 Process the job security
 - 5.1 Pyrometallurgical
 - 5.1.1 Crushed mineral aggregate
 - 5.1.2 Mineral aggregate drying
 - 5.1.3 Nickel matte smelting
 - 5.2 Electrolytic Nickel
 - 5.2.2 Nickel salt solution
 - 5.3 Gas Preparation
 - 5.3.1 Raw gas compression
 - 5.3.2 Oxo synthesis
 - 5.3.3 Nickel liquid distillation, decomposition
 - 5.3.4 Waste Incineration
 - 5.4 Packaging

Foreword

The standard Chapter 4, Chapter 5, Section 6 is mandatory, the rest are recommended. This standard was drafted in accordance with GB/T 1.1-2009 given rules. This standard by the national non-ferrous metals Standardization Technical Committee (SAC/TC243) centralized. This standard is drafted by: Jinchuan Group Co., Ltd., China Nonferrous Metals Industry Standards and Metrology Institute for Quality. The main drafters of this standard. Yan Wenbin, Zhaoyong Shan, Wu Yahui, Yuezhan Bin, Wang Yupei, Liu Jun place, Wuze Sheng, Zhu Biao, Wang Shuying. Nickel smelting production safety norms

1 Scope

GB 30756-2014 is the Chinese national standard on safety specification for nickel smelt production, in the field of environment and health protection, safety. 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 27 March 2014 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 April 2015. Classification: ICS 13.100, CCS H01. 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 safety in production of nickel smelting terms and definitions, essential safety requirements, the operational safety of the process, equipment and facilities to security technology Seek, repair and maintenance, hazard identification and risk assessment, risk control and emergency management, occupational health and incident handling management. This standard applies to the product of nickel smelting production safety management.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document. GB Z

1 Design of Industrial Enterprises hygiene standards (All parts) GB Z2 workplace occupational exposure limit harmful factors GB 150 Pressure Vessel

GB/T 1576 industrial boiler water quality GB 2893 Safety colors

GB 2894 Safety Signs and use guidelines

GB 3095 Ambient Air Quality Standard

GB 4075 Sealed radioactive sources - General requirements and classification

GB 6067.1 crane safety regulations - Part 1. General

GB/T 11651 Personal protective equipment selection specification

GB 12348 industrial enterprises of environmental noise emission standard plant boundary

GB/T 12801 General requirements for the production process safety and health Classification and code of

GB/T 13861 production process hazardous and harmful factors

GB 14500 radioactive waste management

GB 15630 fire safety signs

GB/T 16180 identifying employees the ability to work related injuries and occupational disability rating

3 Terms and Definitions

GB/T 12801, GB/T 28001, AQ/T 9002 defined by the following terms and definitions apply to this document.

3.1 Nickel matte nickelmatt Nickel metallurgical process enriched nickel compound of nickel, copper, cobalt and rare metals sulphides eutectic.

3.2 Nickel smelting nickelsmeltingprocedure The nickel concentrate nickel ore roasting or heating and melting flux, so that the charge of nickel, copper, cobalt and precious metals enriched to low nickel matte, and with the gangue Most of the iron metallurgical slag separation process.

3.3 Nickel electrowinning nickelectrolysis Cell, the upper electrode contact interface and nickel electrolyte through the process of electrochemical reaction of nickel products DC occur.

3.4 Nickel leaching toleachnickel Using the appropriate leaching agent to selective dissolution of minerals, so need to extract nickel and other elements are stable in solution and associated elements into the slag In the process.

3.5 Nickel purification topurifynickel Nickel salt solution of copper, iron, cobalt and other impurities by physical and chemical methods shall not be separated from the nickel salt solution impurity removal process.

3.6 Nickel-water smeltingnickelbundle For receiving, transfer device of nickel metallurgy high-temperature melt job.

3.7 Carbonylation of tocompoundcarbonylnickel At a certain temperature and pressure, the raw material of nickel with carbon monoxide to form a reaction chemically bonded nickel complex.

4.1 Employees

4.1.1 shall be adaptability career choices and occupational health examinations to meet the job requirements.

4.1.2 shall be in accordance with the provisions of the "safe production training management approach", grading special health and safety education and training, the

training of qualified appraisal Job work, education and training should include not limited to the following.

- One skilled in the post-production process and the presence of hazardous and harmful factors and hazards that may arise, to take precautionary measures when necessary;
- Master the knowledge of fire and fire-fighting equipment to use post required;
- Proper use of post labor protection products, appliances;
- Grasp emergency treatment and emergency care methods;
- Learn injury and occupational disease prevention work positions that may arise.

4.1.3 engaged in the transport of dangerous chemicals and other drivers engaged in the transport of dangerous chemicals should be in accordance with the "dangerous chemical safety tube The provisions of Regulation reason "by the transport authorities passed the examination to obtain qualifications before they start to work.

4.1.4 special operations personnel according to relevant provisions of the state security agency specialized job training, obtain qualification certificates for special operations before Posts job.

4.1.5 Enterprise is responsible for safety and production management personnel, and the unit should have engaged in production and business activities to be safe Before serving knowledge of production and management capacity, in accordance with legal requirements to obtain the appropriate qualifications.

4.2 Management System

4.2.1 should be combined with their own reality, establish and maintain safety quantifiable production targets in file form.

4.2.2 the implementation of national laws and regulations, establish and improve the responsibility system for safety in production and management of production safety network, clear all levels, all kinds of people Members of production safety responsibility, to develop a regular safety education and training and examination of incentives and disincentives.

4.2.3 management of production safety should be set up agencies or appoint part-time safety management personnel of the security activities of enterprises with system Form to regulate the specific content should comply with relevant national laws and regulations.

4.2.4 should be established to identify and obtain safety laws, regulations, standards of channels and ways to ensure that their application and effective, and relevant Require timely conversion-oriented rules and regulations, and communicated to stakeholders.

4.2.5 should be based on the requirements of the production process, technology and