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

GB 28661-2012

**Emission standard of pollutants for the iron ore mining and
mineral processing industry**

铁矿采选工业污染物排放标准

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9	Enterprise wastewater discharge	Gap 2 suspended matter 70 70 100 70 300
13	Sulfide	1.0 1.0 1.0 1.0 1.0
14	Fluoride	8.0 8.0 8.0 8.0 10 15 total mercury

Foreword

To implement the Environmental Protection Law of the People's Republic of China, the Law of the People's Republic of China on Water Pollution Prevention and Control, and the Chinese The Law of the People's Republic of China on the Prevention and Control of Air Pollution, the State Council's Decision on Implementing the Scientific Outlook on Development and Strengthening Environmental Protection, etc. Regulations and "Opinions of the State Council on the Preparation of National Main Functional Area Planning" to protect the environment, prevent pollution, and promote iron ore mining This standard is formulated by selecting industrial production processes and advances in pollution control technologies. This standard specifies the limits, monitoring and monitoring requirements for water and air pollutants in iron ore mining and production enterprises. Promote Coordinated development of regional economy and environment, promote the adjustment of economic structure and the transformation of economic growth mode, and guide iron ore mining and industrial students The development direction of production technology and pollution control technology, this standard specifies the special emission limits for water and air pollutants. Iron ore mining and production enterprises emit odorous pollutants, and environmental noise is applied to the corresponding national pollutant discharge standards. The identification, treatment and disposal of body waste shall be subject to national solid waste pollution control standards. This standard is the first release. Since the implementation of

this standard, the "Water Industry Pollutant Emission Standards for the Iron and Steel Industry" (GB 13456-92) and "Large Relevant provisions in the Comprehensive Emission Standard for Air Pollutants (GB 16297-1996). Local provincial people's governments may formulate local pollutant discharge standards for pollutants not specified in this standard; The pollutants items that have been stipulated in this standard may be formulated with local pollutant discharge standards that are stricter than this standard. This standard was formulated by the Science and Technology Standards Department of the Ministry of Environmental Protection. This standard was drafted. Maanshan Mine Research Institute of China Steel Group, Environmental Standards Institute of the Ministry of Environmental Protection. This standard was approved by the Ministry of Environmental Protection on June 15, 2012. This standard has been implemented since October 1, 2012. This standard is explained by the Ministry of Environmental Protection. Emission standards for industrial pollutants in iron ore mining

1 Scope of application

GB 28661-2012 is the Chinese emission standard for iron ore mining and processing. It is a mandatory standard covering an industry that operates at enormous scale in China and whose environmental impact is dominated not by the ore but by everything around it: the water used to wash and concentrate it, the tailings, the dust from blasting, crushing, conveying and stockpiling, and the drainage from the workings. The standard sets the water pollutant discharge limits for the existing and the new pollutant discharging units, including suspended solids, chemical oxygen demand, petroleum, fluoride and the metals, the air pollutant emission limits for particulate from the organised and the fugitive sources, the requirements on the monitoring and on the location and specification of the discharge outlets, and the rules for implementation and supervision. It applies to existing operations and to the environmental impact assessment, the abatement design and the completion acceptance of new projects. For a mining company, an environmental consultancy or an authority in China, this is the governing text.

This standard specifies the limits and monitoring of water pollutants and atmospheric pollutants in iron ore mining production enterprises or production facilities. Monitoring requirements, as well as standards implementation and supervision. This standard applies to the management of water pollutants and atmospheric pollutants in existing iron ore mining production enterprises or production facilities. And environmental impact assessment of iron ore mining and industrial construction projects, environmental protection facilities design, environmental protection project completion acceptance and Management of water pollutants and atmospheric pollutants after production. This standard applies to the pollutant discharge behavior permitted by law; the location of newly established pollution sources and the existing special protection areas The management of pollution sources shall be in accordance with the Law of the People's Republic of China on the Prevention and Control of Air Pollution and the Law of the People's Republic of China

on Prevention and Control of Water Pollution Law of the People's Republic of China on Marine Environmental Protection, Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes, China The relevant provisions of laws, regulations and rules of the People's Republic of China Environmental Impact Assessment Law are implemented. The water pollutant emission control requirements specified in this standard are applicable to enterprises directly or indirectly discharging water pollution outside their legal boundaries. The behavior of the dye.

2 Normative references

The contents of this standard refer to the terms in the following documents.

GB/T 6920-1986 Determination of water pH value - Glass electrode method

GB/T 7466-1987 Determination of total chromium in water - Potassium permanganate - Dibenzoyl dihydrazide spectrophotometric method

GB/T 7467-1987 Determination of hexavalent chromium in water - Diphenyl hydrazide spectrophotometric method

GB/T 7469-1987 Determination of total mercury in water quality - Potassium permanganate - potassium persulfate digestion - Dithizone spectrophotometric method

GB/T 7470-1987 Determination of lead water - Dithizone spectrophotometric method

GB/T 7471-1987 Determination of cadmium in water -- Dithizone spectrophotometric method

GB/T 7472-1987 Determination of zinc in water -- Dithizone spectrophotometric method

GB/T 7475-1987 Determination of copper, zinc, lead and cadmium - Atomic absorption spectrophotometric method

GB/T 7485-1987 Determination of total arsenic in water - Diethyldithio

GB/T 11893-1989 Determination of total phosphorus in water - Ammonium molybdate spectrophotometric method

GB/T 11894-1989 Determination of total nitrogen in water - Alkaline potassium persulfate digestion - UV spectrophotometric method

GB/T 11901-1989 Determination of suspended solids by weight method

GB/T 11902-1989 Determination of selenium in water 2,

2.0 Re-election Magnetic selection 3.0

4.1.4 According to the requirements of environmental protection work, the density of land development has been high, and the environmental carrying capacity has begun to weaken,

or Areas with small environmental capacity, fragile ecological environment, and prone to serious environmental pollution problems requiring special protection measures, The company should strictly control the pollutant discharge behavior of enterprises, and the enterprises in the above regions shall implement the special discharge limits of water pollutants specified in Table 3. value. The geographical scope and time for the implementation of special discharge limits for water pollutants shall be administered by the environmental protection administrative department of the State Council or the provincial level. The people's government regulations. Table

3 Special limits for water pollutants Unit. mg/L (except pH) Serial number pollutant project
 Limit Pollutant emission monitoring position Direct discharge Indirect discharge of mining
 wastewater ore dressing wastewater Acidic wastewater non-acid wastewater flotation
 wastewater Reselection and magnetic Waste water 1 pH 69 69 69 69 6

3 Diaminonaphthalene fluorescence method

GB/T 11906-1989 Determination of manganese in water quality - Potassium periodate spectrophotometric method

GB/T 11907-1989 Determination of silver in water -- Flame atomic absorption spectrophotometric method

GB/T 11910-1989 Determination of nickel in water quality - Dimethylglyoxime spectrophotometric method Water quality -- Determination of iron and manganese -- Flame atomic absorption spectrophotometric method

GB/T 11912-1989 Determination of nickel in water quality - Flame atomic absorption spectrophotometric method

GB/T 11914-1989 Determination of chemical oxygen demand in water - Dichromate method

GB/T 15432-1995 Determination of total suspended particulate matter in ambient air

GB/T 16157-1996 Determination of particulate matter in fixed pollution source exhaust gas and sampling method of gaseous pollutants Water quality - Determination of petroleum and animal and vegetable oils - Infrared spectrophotometric method

GB/T 16489-1996 Determination of sulphide content -- methylene blue spectrophotometric method

GB 18871-2002 Basic standards for ionizing radiation protection and radiation source safety HJ/T 55-2000 Technical Guidelines for the Monitoring of Unorganized Emissions of Air Pollutants HJ/T 58-2000 Determination of water quality - Chromium cyanide R spectrophotometric method HJ/T 59-2000 Determination of water quality - Graphite furnace atomic absorption spectrophotometric method HJ/T 195-2005 Determination of ammonia