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

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**Self-monitoring technology guidelines for pollution sources.
Iron and steel industry and coking chemical industry**

排污单位自行监测技术指南 钢铁工业及炼焦化学工业

(English Translation)

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Foreword

In order to implement the Law of the People's Republic of China on Environmental Protection, "Law of the People's Republic of China on Prevention and Control of Atmospheric Pollution", "People's Republic of China and the State Water Pollution Prevention Law "to guide and standardize the iron and steel industry and coking chemical industry sewage monitoring units to work on their own, the development of this standard quasi.

This standard proposes the general requirements of the steel industry and the coking chemical industry sewage disposal units for self-monitoring, the development of monitoring plans, Information recording and reporting of the basic content and requirements. This standard does not apply to iron and steel production enterprises in iron ore mining and ferroalloy production Process self-monitoring.

This standard is released for the first time.

This standard by the Environmental Protection Department of Environmental Monitoring Division, Science and Technology Standards Division proposed and organized.

1 Scope of application

This standard proposes the general requirements of the steel industry and the coking chemical industry sewage disposal units for self-monitoring, the development of monitoring plans, Information recording and reporting of the basic content and requirements.

This standard applies to the iron and steel industry and coking chemical industry sewage units in the production and operation of its discharge of water and air pollution Objects, noise and their impact on the surrounding environment quality monitoring. This standard

does not apply to iron and steel production enterprises in iron ore mining and processing Ferroalloy production process of self-monitoring.

Iron and steel industry and coking chemical industry sewage units owned by the thermal power generating units (plants), supporting boiler self-monitoring to be Seeking to follow HJ 820 implementation.

2 Normative references

This standard references the following documents or the terms of them. For dated references, the effective version is valid Used for this standard.

GB 13456 steel industry water pollutant discharge standards GB 16171 coking chemical industrial pollutant discharge standards GB 28662 steel sintering, pellet emissions of industrial air pollutants GB 28663 Ironmaking Industry Air Pollutant Emission Standard GB 28664 Steel Industry Air Pollutant Emission Standard GB 28665 Rolling mill industrial air pollutant emission standards HJ 2.2 Environmental Impact Assessment Technical Guidelines Atmospheric environment HJ/T 2.3 Environmental Impact Assessment Technical Guidelines Surface water environment HJ/T 55 Guidelines for Unorganized Emissions Monitoring of Air Pollutants HJ/T 91 Technical Specifications for Surface Water and Sewerage Monitoring HJ/T 164 Groundwater Environmental Monitoring Technical Specifications HJ/T 166 Soil Environmental Monitoring Technical Specifications HJ/T 194 Environmental Air Quality Manual Monitoring Technical Specifications HJ 442 Marine environment monitoring code HJ 610 Environmental Impact Assessment Technical Guidelines Groundwater Environment HJ 819 Technical Guidelines for Self-Monitoring of Sewage Disposal Units General HJ 820 Self-Monitoring Technical Guidelines for Sewage Disposal Units Thermal Power Generation and Boilers "National List of Hazardous Wastes" (Ministry of Environmental Protection, National Development and Reform Commission, Ministry of Public Security Order No. 39)

3 Terms and definitions

GB 13456, GB 16171, GB 28662, GB 28663, GB 28664, GB 28665, HJ 819 and the following terms and definitions apply to this standard.

Iron and steel industry pollutant emission unit Refers to the unit containing the sintering, pellets, iron making, steelmaking and rolling and other industrial processes.

Coking chemical industry pollutant emission unit Refers to the coking chemical industry production process of sewage disposal units, including coking chemical industrial enterprises and steel and other industrial enterprises Lian Coke factory.

4 Self-monitoring of the general requirements

Sewage units should check their own sources of pollution, pollutants and potential environmental impact indicators, the development of monitoring programs, set and maintain the monitoring facilities, carry out self-monitoring according to the monitoring plan, conduct quality assurance and quality control, record and save the monitoring Data and information, in accordance with the law to the public monitoring results.

5.1.1.1 Monitoring points

Exhaust gas of each process is discharged to the external environment through an exhaust pipe or the like, and the exhaust gas discharge passage in front of the exhaust pipe or the exhaust pipe Set the monitoring point.

5.1.1.2 Monitoring indicators and monitoring frequency

The minimum monitoring frequency of each monitoring point monitoring frequency in accordance with Table 1 implementation.

Table 1 Minimum Monitoring Frequency of Organized Exhaust Gas Monitoring Indicators

Production process monitoring points monitoring indicators monitoring frequency Raw material system for discharge facilities, transfer stations and other facilities exhaust particulate matter for two years sintering Dosing facilities, whole-grain screening facility Exhaust gas particulate matter quarterly Sintering machine head exhaust Particulate matter, sulfur dioxide, nitrogen oxides automatic monitoring Fluoride quarterly Dioxin year Sinter machine exhaust tailor particulate matter automatic monitoring Crushing facilities, cooling facilities and other facilities exhaust pipe particulate matter years Pellet Dosing Facilities Exhaust Pins Particulates Quarterly Production process monitoring points monitoring indicators monitoring frequency Baking facilities exhaust Particulate matter, sulfur dioxide, nitrogen oxides automatic monitoring Fluoride quarterly Crushing, screening, drying and other facilities Exhaust pellet years Coking Coal broken, coke crushing, screening, transport facilities exhaust Particle year Coal station ground station exhaust Particulate matter, sulfur dioxide automatic monitoring Benzo [a] pyrene six months Poke coke ground station exhaust particles, sulfur dioxide automatic monitoring Coke oven chimney (including coke oven tail desulfurization, denitrification facilities Exhaust pipe) Particulate matter, sulfur dioxide, nitrogen oxides automatic monitoring Dry quenching the ground station exhaust particles, sulfur dioxide automatic monitoring Coarse tube furnace, semi-coke drying and ammonia decomposition furnace burning coke Facility for gas furnace exhaust Particulates, sulfur dioxide, nitrogen oxides six months Cold drums, the reservoir tar all kinds of tank exhaust Benzo [a] pyrene, hydrogen cyanide, phenols, non-A Total hydrocarbons, ammonia, hydrogen sulfide Six months Benzene storage tank exhaust cylinder benzene, non-methane hydrocarbon six months Desulfurization regeneration tower

exhaust tube ammonia, hydrogen sulfide six months Ammonium sulfate dry exhaust gas cylinder particles, ammonia six months Ironmaking Mine trough exhaust particulate matter automatic monitoring Ironworks exhaust particle, sulfur dioxide a automatic monitoring Blast furnace exhaust particles, sulfur dioxide, nitrogen oxides quarterly Raw material systems, pulverized coal systems and other facilities exhaust tube particulate matter Steelmaking Converter secondary fume exhaust particulate matter automatic monitoring Converter three times flue gas cylinder particulate matter quarter Electric furnace flue gas exhaust tube Automatic particle monitoring Dioxin year Lime kiln, dolomite kiln roaster exhaust particulate matter, sulfur dioxide a, nitrogen oxide a quarter Hot metal pretreatment (including pouring, slag, etc.), refining furnace, Steel slag treatment facilities exhaust Particle year Converter once flue gas, continuous casting cutting and flame cleaning and others Facility exhaust Particles for two years Electroslag Metallurgical exhaust fluoride for six months Rolling Heat treatment furnace exhaust pipe particles, sulfur dioxide, nitrogen oxides Quarter (since Dynamic monitoring b) Hot mill finishing mill exhaust tube particulate matter years Tension straightening machine, finishing machine, shot blasting machine, grinding machine, welding machine particles for two years Production process monitoring points monitoring indicators monitoring frequency and other facilities exhaust Rolling unit exhaust tube oil mist c half a year Waste acid regeneration exhaust tube particles, hydrogen chloride, nitric acid fog, fluoride six months Pickling unit exhaust cylinder hydrogen chloride, sulfuric acid mist, nitric acid fog, fluoride six months Coated unit exhaust chromate fog six months Degumming exhaust caustic soda c half a year Coating unit exhaust cylinder benzene, toluene, xylene, non-methane hydrocarbon six months

Note 1: The municipal and district-level environmental authorities at district level clearly require that pollutant indicators of automatic monitoring equipment be installed and automatic monitoring be taken.

Note 2: Exhaust gas monitoring shall be based on the corresponding standard analysis methods, technical specifications simultaneously monitor the flue gas parameters.

Note: a is the selection index.

b The heat treatment furnace exhaust gas burning furnace gas shall be automatically monitored.

c National monitoring of pollutants to be implemented after the standard method of release, before the release of the election can be measured.

5.1.2.1 Unorganized emission monitoring points, indicators and frequency of production workshop

Drainage units should be in accordance with the provisions of GB 16171, GB 28662, GB 28663, GB 28664, GB 28665, HJ/T 55 Set up the monitoring points of the unorganized discharge of the production workshop, as required by the local discharge standards, and