

HJ

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

HJ 1251-2022

Self-monitoring technology guidelines for pollution sources - Metal foundry industry (English Translation)

Issued on: January 1, 1970

Implemented on: January 1, 1970

Issued by: Ministry of Ecology and Environment

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1 Scope of application

This standard specifies the general requirements for self-monitoring of pollutant discharge units in the metal casting industry, the formulation of monitoring plans, and the basics of information recording and reporting.

content and requirements.

This standard applies to the water and air pollutants, noise and its impact on the surrounding environment of the metal casting industry pollutant discharge units during the production and operation stage.

Self-monitoring of environmental quality impacts.

Self-monitoring requirements for self-provided thermal power generating units (factories) and supporting power boilers shall be implemented in accordance with HJ 820.

2 Normative references

This standard refers to the following documents or clauses thereof. For dated references, only the dated version applies to this standard.

For undated references, the latest edition (including all amendments) applies to this standard.

GB/T 4754-2017 National Economic Industry Classification GB 8978 Integrated Wastewater Discharge Standard GB 14554 Emission Standard of Odor Pollutants GB 39726 Foundry Industry Air Pollutant Emission Standard HJ/T 166 Technical Specification for Soil Environment Monitoring HJ 819 General Principles of Technical Guidelines for Self-Monitoring of Pollutants HJ 820 Technical Guide for Self-Monitoring of Pollutant

Emission Units Thermal Power Generation and Boiler HJ 905 Technical Specification for Environmental Monitoring of Odor Pollution HJ 964 Environmental Impact Assessment Technical Guidelines Soil Environment (Trial) HJ 1200 Technical Specification for Pollution Discharge Permit Application and Issuance Industrial Solid Waste (Trial) "National Hazardous Waste List"

3 Terms and Definitions

GB 39726 as well as the following terms and definitions apply to this standard.

foundry industry

Manufacturing of various metal castings. It belongs to the metal products industry in GB/T 4754-2017 and is classified as ferrous metal casting (C 3391) and non-ferrous metal casting (C 3392). Ferrous metal casting refers to the manufacture of various finished and semi-finished products such as iron castings and steel castings; non-ferrous metal castings Manufacturing refers to the manufacture of various finished and semi-finished products such as non-ferrous metals and their alloy castings.

metal foundry industry pollutant emission unit Sewage units engaged in the manufacture of various metal castings, including ferrous metal casting sewage units and non-ferrous metal casting sewage units. black gold Foundry pollutant discharge units refer to pollutant discharge units engaged in the manufacture of various finished and semi-finished products such as iron castings and steel castings; non-ferrous metal casting pollutant discharge units refer to Sewage discharge units engaged in the manufacture of various finished and semi-finished products of non-ferrous metals and their alloys.

direct discharge

The act of discharging water pollutants directly into environmental water bodies.

indirect discharge

The act of discharging water pollutants into the public sewage treatment system by a sewage unit.

key regions

According to the requirements of ecological environment work, the air pollution is serious, or the ecological environment is fragile, or there is a need for further improvement of ambient air quality, etc.

Areas that require strict control of air pollutant emissions.

4 General requirements for self-monitoring

The pollutant discharging unit should find out the pollution source, pollutant index and potential environmental impact of the unit, formulate a monitoring plan, set up and maintain monitoring facilities, carry out self-monitoring in accordance with the monitoring plan, do a good job in quality assurance and quality control, record and save monitoring data, and disclose it to the public in accordance with the law Monitoring results.

5.1.1 Organised exhaust emission monitoring

5.1.1.1

The monitoring points, monitoring indicators and minimum monitoring frequency of the pollutant discharge units of the metal casting industry shall be implemented in accordance with Table 1.

5.2.2 Monitoring indicators and monitoring frequency

The monitoring points, monitoring indicators and minimum monitoring frequency of waste water discharge of metal casting industry sewage discharge units shall be implemented in accordance with Table 3.

5.3 Boundary environmental noise monitoring

5.3.1

The setting of environmental noise monitoring points at the plant boundary should follow the principles in HJ 819, mainly considering metal smelting (chemical) and auxiliary equipment, sand Processing and sand regeneration equipment, shakeout machines, molding/core making equipment, centrifuges, die casting machines, cleaning and grinding equipment, vacuum pumps, air compressors, air the distribution of noise sources such as machines and other noise sources in the factory area and the location of surrounding noise-sensitive buildings.

5.3.2

The environmental noise at the boundary of the plant shall be monitored at least once a quarter for daytime and nighttime noise, and the monitoring index is equivalent continuous A sound level. frequency at night when affected by the frequent and occasional noise, measure the maximum sound level of the frequent and occasional noises at the same time. Night noise monitoring may not be carried out for those who do not produce at night. noise around for sound-sensitive buildings, the frequency of monitoring should be increased.

5.4 Surrounding environmental quality impact monitoring

5.4.1

If there are clear requirements in laws and regulations, etc., carry out monitoring of surrounding environmental quality impact as required.

5.4.2

If there is no specific requirement, if the pollutant discharge unit deems it necessary, it may open the environmental quality of surrounding water, soil and air according to the actual situation.

Exhibition monitoring. Pollutant discharge units producing lead-based and lead-bronze refer to HJ/T 166 and HJ 964 to set up soil monitoring points, and monitor surrounding soil.

The monitoring indicators and the minimum monitoring frequency shall be implemented in accordance with Table 4.

5.5 Other requirements

5.5.1

In addition to the pollutant indicators in Tables 1 to 3, the pollutant indicators in 5.5.1.1 and 5.5.1.2 should also be included in the scope of monitoring indicators, and refer to Table 1~Table 3 and HJ 819 to determine the monitoring frequency.

5.5.1.1

Pollutant Discharge Permit, Implemented Pollutant Discharge (Control) Standards, Environmental Impact Assessment Documents and Their Approvals [Only in 2015 Pollutant discharge units that have obtained the approval of environmental impact assessment after January 1, 2009], and the pollutants specified in the relevant ecological environment management regulations.

mark.

5.5.1.2

The sewage discharge unit determines the actual discharge according to the raw and auxiliary materials used in the production process, the production process, the types of intermediate and final products, and the monitoring results.

released, the pollutant indicators in the list of toxic and hazardous pollutants or the priority control chemicals list, or other toxic pollutant indicators.

5.5.2

The monitoring frequency of each indicator can be increased according to the determination principle in HJ 819 on the basis of meeting this standard.