

HJ

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Self-monitoring technology guidelines for pollution sources - Rare and rare earth metals smelting industry

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(English Translation)

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1 Scope of application

This standard specifies the general requirements for self-monitoring, monitoring plan formulation, information recording and reporting of pollutant discharge units of rare rare earth metal smelting Basic content and requirements.

This standard is applicable to the water and air pollutants, noise and environmental pollution discharged by rare rare earth metal smelting pollutant discharging units during the production and operation stage.

Carry out self-monitoring on the impact of border environmental quality, including 3231 Tungsten and molybdenum smelting, 3232 Rare earth metal smelting, 3239 GB/T 4754-2017 Other rare metal smelting sewage units. Contents and requirements of self-monitoring by tantalum and niobium smelting polluters belonging to 3239 Other rare metal smelting it is required to apply this standard; the content and requirements of self-monitoring by zirconium and beryllium smelting pollutant discharge units shall be implemented with reference to this standard.

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

Environmental radiation monitoring and information disclosure requirements are in accordance with the "Measures for Environmental Radiation Monitoring and Information Disclosure of Associated Radioactive Mines Development and Utilization Enterprises (Test line)" to execute.

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 26451 Rare Earth Industry Pollutant Emission Standard GB 30485 Cement kiln co-processing solid waste pollution control standard HJ 2.2 Technical Guidelines for Environmental Impact Assessment Atmospheric Environment HJ 2.3 Technical Guidelines for Environmental Impact Assessment Surface Water Environment HJ 91.2 Technical Specification for Surface Water Environmental Quality Monitoring HJ 164 Technical Specification for Groundwater Environmental Monitoring HJ/T 166 Technical Specification for Soil Environment Monitoring HJ 194 Technical Specification for Manual Monitoring of Ambient Air Quality HJ 442.8 Technical Specifications for Environmental Monitoring in Offshore Sea Areas Part VIII Direct Discharge to Sea Pollution Sources and Effects on the Water Environment of Offshore Sea Areas Environmental Impact Monitoring HJ 610 Environmental Impact Assessment Technical Guidelines Groundwater Environment HJ 662 Technical Specification for Environmental Protection of Solid Waste Co-processing in Cement Kilns 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 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" "Measures for Environmental Radiation Monitoring and Information Disclosure of Enterprises in the Development and Utilization of Associated Radioactive Mines (Trial)" (Guohuanguai Radiation [2018] No. 1)

3 Terms and Definitions

The terms and definitions defined in GB 26451 and the following apply to this standard.

emission unit for rare and rare earth metals smelting Pollutant discharge units engaged in rare rare earth metal smelting activities in industry code 323 in GB/T 4754-2017, including industry code 3231 Pollutant discharge units of tungsten and molybdenum smelting, pollutant discharge units engaged in industry code 3232 rare earth metal smelting, and industry code 3239 other rare metals Smelting sewage unit.

Tungsten and molybdenum separation and metal smelting pollutants emission unit Using tungsten concentrate, molybdenum concentrate, and tungsten and molybdenum-containing materials as raw materials, it produces ammonium paratungstate, tungsten powder, tungsten bars (rods), tungsten particles, tungsten slabs, baked tungsten Burnt molybdenum

concentrate, molybdenum powder, molybdenum bars (rods), other tungsten and other molybdenum discharge units belong to the industry code 3231 in GB/T 4754-2017 Tungsten and molybdenum smelting industry.

rare earth metals smelting pollutants emission unit Using rare earth concentrates or rare earth-containing materials as raw materials, it contains at least one step in the process of decomposing extraction, grouping, separation, metal and alloy production Sewage units producing rare earth compounds, rare earth metals or rare earth alloys, belonging to industry code 3232 rare earth metals in GB/T 4754-2017 smelting industry.

other rare metal smelting pollutants emission unit Pollutant discharge units smelted by tantalum, niobium, zirconium, beryllium and other rare metal concentrates, belonging to industry code 3239 in GB/T 4754-2017 Others Rare metal smelting industry.

rainwater outlet

A discharge outlet that specifically discharges natural precipitation to outside the factory boundary directly or through ditch, canal or pipeline and other facilities.

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 information, and disclose it to the public in accordance with the law Monitoring results.

5.1 Wastewater discharge monitoring

5.1.1

The monitoring points, monitoring indicators and minimum monitoring frequency of wastewater discharge from tungsten and molybdenum smelting units shall be implemented in accordance with Table 1.

5.5.3 Key pollutant discharging units shall install and use automatic monitoring equipment according to laws and regulations. Non-key pollutant discharging units do not have mandatory requirements.

The monitoring frequency of bits and indicators shall be determined with reference to this standard.

5.5.4 Sampling methods, monitoring analysis methods, monitoring quality assurance and quality control shall be implemented in accordance with HJ 819.

5.5.5 The description and changes of the monitoring program shall be implemented in accordance with HJ 819.

6.1.1 Monitoring information record

Manual monitoring records and automatic monitoring operation and maintenance records are implemented in accordance with HJ 819. The authenticity and accuracy of the automatic monitoring data by the sewage unit Responsible for the abnormal data transmission should be reported in a timely manner, and implemented in accordance with national standards or automatic monitoring data abnormality marking rules.

6.1.2.1 General provisions

The pollutant discharging unit shall record the operation status of production and pollution control facilities in detail, and shall refer to 6.1.2.2~6.1.2.5 to record relevant information in daily production.

and organize them into a ledger for future reference.

6.1.2.2 Production Health Record

According to the production batch or production cycle, the operation status, production load, operation of each main production unit and each production facility under normal working conditions are recorded.

Parameters, main product output, raw and auxiliary materials and fuel usage (including type, name, dosage, composition analysis) and other information.

6.1.2.3 Records of the operation status of wastewater pollution control facilities

Record wastewater treatment volume, reuse water volume, reuse destination, wastewater discharge volume, discharge destination, sludge production volume and moisture content, waste water volume by shift Name and dosage of chemicals used in water treatment, electricity consumption, etc.; if the wastewater is treated by evaporation and concentration, the reuse and discharge of condensed water shall also be recorded.

discharge, non-condensable gas treatment and discharge; record the operation, failure and maintenance of sewage treatment facilities.

6.1.2.4 Records of operating status of waste gas pollution control facilities

Record the names and quantities of consumables such as adsorbents and filter materials used in waste gas treatment according to the replacement batch; waste gas adopts by-product recovery technology If the technology is used, the recovery rate and comprehensive utilization of by-products should be recorded; the operating parameters, faults and maintenance of waste gas treatment facilities should be recorded.