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**Self-monitoring technology guidelines for pollution
sources--Coating**

排污单位自行监测技术指南 涂装
(English Translation)

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Foreword

In order to implement the "Environmental Protection Law of the People's Republic of China" Law on Air Pollution Control of the People's Republic of China, "Administrative Measures for Pollutant Discharge Permits (Trial)", which guides and regulates industrial pollution discharge units with coating procedures Monitoring work to develop this standard.

This standard sets out the general requirements for self-monitoring of industrial sewage units with coating processes, the formulation of monitoring plans, and information recording.

And the basic content and requirements of the report.

This standard is issued for the first time.

This standard is proposed and organized by the Department of Eco-Environment Monitoring, the Department of Regulations and Standards of the Ministry of Ecology and Environment.

The main drafting organizations of this standard. the Fourth Design and Research Institute of Machinery Industry Co., Ltd.

Xin, Henan Environmental Monitoring Center.

This standard was approved by the Ministry of Ecology and Environment on January 6,

2020.

This standard will be implemented from April 01, 2020.

This standard is explained by the Ministry of Ecology and Environment.

Guidelines for self-monitoring of sewage discharge units

1 Scope

This standard specifies the general requirements for self-monitoring of industrial sewage discharge units including the coating process, the development of monitoring programs, information recording and reporting.

Basic content and requirements.

This standard applies to water, air pollutants, noise, Carry out self-monitoring of environmental quality impacts.

This standard does not apply to "Product Lifecycle Process Knowledge for Equipment Manufacturing-Part 1. General Manufacturing Process Classification" (GB/T 22124.1) for the thermal spraying process defined in the self-monitoring, refer to the "General Guidelines for Self-Monitoring Technical Guidelines for Sewage Units" (HJ 819) or other industry guides.

The self-monitoring requirements for the self-provided thermal power generating units (plants) and supporting boilers of the pollutant discharge units are in accordance with Power Generation and Boiler "(HJ 820).

2 Normative references

The content of this standard refers to the following documents or clauses therein. For undated references, the valid version (including all the modification list) applies to this standard.

GB 12348 Environmental noise emission standards for industrial enterprises GB/T 22124.1 Product Lifecycle Process Knowledge for Equipment Manufacturing Part 1. General Manufacturing Process Classification HJ 194 Technical Specifications for Manual Monitoring of Ambient Air Quality HJ 442 Specifications for Environmental Monitoring in Coastal Waters HJ 664 Technical Specification for Ambient Air Quality Monitoring Locations (Trial) HJ 819 Technical Guidelines for Self-monitoring of Sewage Units HJ 820 Technical Guideline for Self-monitoring of Sewage Units HJ 964 Technical Guidelines for Environmental Impact Assessment Soil Environment (Trial) HJ/T 55 Technical guidelines for fugitive emissions monitoring of air pollutants HJ/T 91 Technical specifications for surface water and sewage monitoring HJ/T 164 Technical Specifications for Groundwater Environmental Monitoring HJ/T 166 Technical Specifications for Soil Environmental

Monitoring "Circular of the State Council on Printing and Distributing a Three-Year Action Plan to Win the Blue Sky Defense War" (Guo Fa [2018] No. 22) Catalogue of Classified Management of Pollutant Discharge Permits for Fixed Pollution Sources National Hazardous Waste List "Clean Production Evaluation Index System for Coating Industry" (Announcement.2016 of National Development and Reform Commission, Ministry of Environmental Protection, Ministry of Industry and Information Technology 21st of the year) "Administrative Regulations on the List of Key Pollutant Discharge Units (Trial)" (Environment Office Monitoring [2017] No. 86)

3 Terms and definitions

The terms and definitions defined in GB/T 22124.1, HJ 819, "Clean Production Evaluation Index System for Coating Industry" and the following terms apply to this standard.

Coating

Adopt suitable construction methods and technology to apply different kinds of coatings on the surface of the object and firmly adhere to the coating of the coated object Film forming process.

Including coating preparation, mechanical pretreatment (shot blasting, sanding, blasting, shot blasting, cleaning, etc.), chemical pretreatment (solvent scrubbing, acid Rust removal, scrub rust removal and chemical degreasing, etc.), conversion film treatment (phosphating, passivation, zirconization, silanization, chemical oxidation, etc.), coating (including (Primer, middle coat, top coat, varnish, glue), leveling, curing and film production processes.

Spraying coat

A coating method for applying paint to the surface of a coating object by means of a spray gun or an atomizer by means of pressure, centrifugal force, electric field force, and the like.

Volatile organic compounds (VOCs) Organic compounds that participate in atmospheric photochemical reactions, or organic compounds determined by measurement or accounting according to prescribed methods.

When characterizing the overall emissions of VOCs, according to industry characteristics and environmental management requirements, total volatile organic compounds (as TVOC (Represented), non-methane total hydrocarbons (represented by NMHC) as pollutant control projects.

Direct discharge

Refers to the act of a pollutant discharge unit directly discharging water pollutants into environmental water bodies.

Indirect discharge

Refers to the discharge of pollutants by sewage units into public sewage treatment systems.

Rainwater outlet

Refers to discharge outlets that discharge natural precipitation directly outside the plant boundary, directly or through facilities such as trenches, canals, or pipelines.

4 General requirements for self-monitoring

Pollutant discharge units should find out their own pollution sources, pollutant indicators and potential environmental impacts, formulate monitoring plans, set up and maintain monitoring facilities, carry out self-monitoring in accordance with the monitoring plan, do a good job of quality assurance and quality control, record and retain monitoring data and information, and Disclose the monitoring results to the public.

5.1.1 Monitoring points

There is a conversion membrane treatment process or other special processes, and the wastewater containing the first type of pollutants must be discharged in the workshop or production facility.

Set the monitoring point position.

All industrial sewage discharge units with coating processes must set monitoring points at the total waste water outlet; domestic sewage is discharged directly into the external environment separately it is also necessary to set monitoring points at domestic sewage discharge outlets.

5.1.2 Monitoring indicators and frequency

The wastewater discharge monitoring point, monitoring index and minimum monitoring frequency of the sewage unit shall be implemented in accordance with Table 1.

Table 1 Wastewater discharge monitoring points, monitoring indicators and minimum monitoring frequency

Monitoring point	unit	property	monitoring index	Monitoring frequency	Direct emissions
indirect emissions	Workshop or production	Facility	wastewater discharge	Let go	Key pollutant discharge unit
Flow, hexavalent chromium a, total chromium a, total nickel a	Quarters of non-key sewage units	Total wastewater discharge	Key pollutant discharge unit	Automatic monitoring of flow rate, pH value, COD, ammonia nitrogen, total phosphorus	Total nitrogen, suspended matter, petroleum, anionic surfactant (LAS)
Month	quarter	Fluoride a, total zinc a, total manganese a, total copper a	Non-key pollutant discharge units	Flow, pH, COD, ammonia nitrogen, total phosphorus, total nitrogen, Suspended matter	Quarter half year
Domestic sewage	Let go	Key pollutant discharge unit	Automatic		