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

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**Self-monitoring technology guidelines for pollution
sources--Wastewater treatment**

排污单位自行监测技术指南 水处理

(English Translation)

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Foreword

In order to implement the "Environmental Protection Law of the People's Republic of China" National Air Pollution Control Law, which guides and regulates the self-monitoring work of water treatment and sewage discharge units to formulate this standard.

This standard proposes general requirements for self-monitoring by water treatment and sewage discharge units, formulation of monitoring programs, information recording and reporting.

The basic content and requirements of the report.

This standard is issued for the first time.

This standard is formulated by the Department of Eco-Environmental Monitoring, Laws and Standards Department of the Ministry of Ecology and Environment.

The main drafting organizations of this standard. China National Environmental Monitoring Station and Hubei Province Environmental Monitoring Center Station.

This standard was approved by the Ministry of Ecology and Environment on January 6, 2020.

This standard will be implemented as of April 01, 2020.

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

Sewage Unit Self-Monitoring Technical Guide Water Treatment

1 Scope

This standard sets out the general requirements for self-monitoring by water treatment and sewage discharge units, the development of monitoring programs, information recording and reporting.

Basic content and requirements.

This standard applies to water and air pollutants, sludge, and plant boundary Monitoring of environmental noise and its surrounding environmental quality.

This standard does not apply to urban sewage treatment plants and other domestic sewage treatment plants with a processing capacity of less than 500m³/d.

For a centralized sewage treatment plant of a single industry type, if there is a clear regulation in the technical guide for self-monitoring by the corresponding industry sewage unit Set, follow its provisions.

The self-monitoring requirements of self-provided thermal power generating units (plants) and supporting power boilers are implemented in accordance with HJ 820.

2 Normative references

The content of this standard refers to the following documents or clauses therein. For undated references, the valid version is Used in this standard.

GB 18918 Pollutant Discharge Standard for Urban Sewage Treatment Plants HJ 442 Specifications for Environmental Monitoring in Coastal Waters HJ 819 Technical Guidelines for Self-monitoring of Sewage Units HJ 820 Technical Guideline for Self-monitoring of Sewage Units HJ 978 Application for Sewage Permit and Issuance of Technical Specifications HJ/T 2.3 Technical Guidelines for Environmental Impact Assessment Surface Water Environment HJ/T 91 Technical specifications for surface water and sewage monitoring

3 Terms and definitions

GB 18918, HJ 978 and the following terms and definitions apply to this standard.

Wastewater treatment unit Refers to sewage treatment plants for centralized treatment of

domestic sewage and industrial wastewater, including urban sewage treatment plants, Sewage treatment plant, industrial wastewater centralized treatment plant.

Municipal wastewater treatment plant Refers to a sewage treatment plant that purifies sewage entering the urban sewage collection system.

Other wastewater treatment plant in addition to urban sewage treatment plants, other sewage treatment plants that provide domestic sewage treatment services to the public.

Industrial wastewater treatment plant in addition to domestic sewage treatment plants, special treatment of industrial wastewater, or in industrial clusters such as industrial parks and development zones Sewage discharge units provide sewage treatment services and serve as sewage treatment plants for ancillary facilities in industrial clusters.

Centralized wastewater treatment plant for single industry type type industry Refers to a sewage treatment plant that provides wastewater treatment services to two or more sewage discharge units of the same industry.

Sludge

Refers to the semi-solid or solid substances with different water content produced by the sewage treatment unit during the process of sewage purification, not including Including grid slag, scum and grit of grit chamber.

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

Water treatment and sewage discharge units shall find out their own pollution sources, pollutant indicators and potential environmental impacts, and formulate monitoring plans.

Set up and maintain monitoring facilities, carry out self-monitoring in accordance with the monitoring plan, do quality assurance and quality control, record and keep Monitoring data, and publicizing the monitoring results to the public according to law.

5.1.1 Urban sewage treatment plants and other domestic sewage treatment plants

The monitoring points, indicators and minimum monitoring frequency of the influx of urban sewage treatment plants and other domestic sewage treatment plants shall be implemented according to Table 1.

Row.

Table 1 Influent monitoring indicators and minimum monitoring frequency of urban sewage

treatment plants and other domestic sewage treatment plants

Monitoring point monitoring frequency Water inlet Automatic monitoring of flow, COD, ammonia nitrogen Total phosphorus and nitrogen Note. The automatic monitoring data of the water main must be networked with the platform of the local ecological environment and environmental protection department's pollution source automatic monitoring system platform.

5.1.2 Industrial wastewater centralized treatment plant

The monitoring points, indicators and minimum monitoring frequency of the industrial wastewater centralized treatment plant shall be implemented in accordance with Table 2.

Table 2 Influent monitoring indicators and minimum frequency of industrial wastewater centralized treatment plants

Monitoring point monitoring frequency Water inlet Automatic monitoring of flow, COD, ammonia nitrogen Total phosphorus and nitrogen Before mixing industrial wastewater Total wastewater discharge in accordance with the relevant industry discharge permit application and technical specifications or self-monitoring technical guidelines it is determined in accordance with HJ 819 that the technical specifications and self-monitoring technical guidelines for the application and issuance of sewage discharge permits without industry the requirements for the total waste water outlet of the medium-sized wastewater are determined.

Note 1: The automatic monitoring data of the water main must be networked with the platform of the local ecological environment and environmental pollution control system.

Note 2: The monitoring results of wastewater before industrial wastewater mixing can use the self-monitoring data of the wastewater discharge unit or carry out the monitoring on its own.

5.2.1 Urban sewage treatment plants and other domestic sewage treatment plants

The wastewater discharge monitoring points, monitoring indicators and minimum monitoring frequency of urban sewage treatment plants and other domestic sewage treatment plants are as follows.

Follow Table 3.

Urban sewage treatment plants and other domestic sewage treatment plants that accept industrial waste water containing toxic and harmful water pollutants shall refer to Table 4 Increase the frequency of monitoring of toxic and harmful pollutants.

If the changes in the influent cause the types of pollutants to change, the self-monitoring scheme should be adjusted in accordance with Table 3.