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

HJ 1088-2020

**Self-monitoring technology guidelines for pollution sources
Phosphatic, potassic, compound, organic and microbial
fertilizer**

排污单位自行监测技术指南 磷肥、钾肥、复混肥料、有机肥料和微生物肥料
(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 Prevention and Control Law, "Administrative Measures for Pollutant Discharge Permit (Trial)", which guides and regulates phosphate fertilizer, potash fertilizer, compound fertilizer (composite Fertilizers), organic fertilizers and microbial fertilizers, industrial sewage discharge units shall conduct their own monitoring work to formulate this standard.

This standard proposes industrial sewage discharge units for phosphate fertilizer, potassium fertilizer, compound fertilizer (composite fertilizer), organic fertilizer and microbial fertilizer.

General requirements for self-monitoring, basic content and requirements for monitoring program development, information recording and reporting.

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.

1 Scope

This standard proposes industrial sewage discharge units for phosphate fertilizer, potassium fertilizer, compound fertilizer (composite fertilizer), organic fertilizer and microbial fertilizer.

General requirements for self-monitoring, basic content and requirements for monitoring program development, information recording and reporting.

This standard applies to phosphate, potassium, compound fertilizer (composite fertilizer), organic fertilizer and microbial fertilizer industry sewage discharge units Carry out self-monitoring of water, air pollutants, noise and its surrounding environmental quality during the production and operation stage the self-monitoring requirements for self-provided thermal power generating units (plants) and supporting power boilers are in accordance with "South Thermal 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 is Used in this standard.

GB 15580 Water Pollutant Discharge Standard for Phosphate Fertilizer Industry GB 18599 Standard for Pollution Control of General Industrial Solid Waste Storage and Disposal Sites HJ 2.2 Technical Guidelines for Environmental Impact Assessment, Atmospheric Environment HJ 194 Technical Specifications for Manual Monitoring of Ambient Air Quality HJ 819 Technical Guidelines for Self-monitoring of Sewage Units HJ 820 Technical Guideline for Self-monitoring of Sewage Units HJ/T 164 Technical Specifications for Groundwater Environmental Monitoring National Hazardous Waste List

3 Terms and definitions

The following terms and definitions apply to this standard.

Phosphate fertilizer industry Industry producing phosphate fertilizer products. Phosphate fertilizer products include. monoammonium phosphate, diammonium phosphate, heavy superphosphate, nitrate phosphate fertilizer, Phosphorus potassium nitrate fertilizer, calcium superphosphate, calcium magnesium phosphate fertilizer, calcium magnesium phosphate potassium fertilizer and other by-products (sodium fluorosilicate, potassium fluorosilicate, etc.) and Phosphoric acid (wet process) as an intermediate product for phosphate fertilizer production.

Potashic fertilizer industry Industry that produces potash products. Potassium fertilizer products include. potassium chloride, potassium sulfate, potassium nitrate, and potassium magnesium sulfate.

Compound fertilizer (complex fertilizer) industry Industry producing compound fertilizers (compound fertilizers). Compound fertilizer (composite fertilizer) refers to the three nutrients of nitrogen, phosphorus and potassium Fertilizers with less nutrient content (monoammonium phosphate, diammonium phosphate, nitrate, phosphate potassium nitrate, calcium magnesium phosphate, calcium Except for magnesium phosphorus potassium fertilizer and potassium nitrate).

Organic and microbial fertilizer industry Production of organic and microbial fertilizers.

Direct emission

The act of a pollutant discharge unit directly discharging pollutants into environmental water bodies.

Indirect emission

The act of a pollutant discharge unit discharging pollutants into a public sewage treatment system.

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, and set up and maintain monitoring facilities, carry out self-monitoring in accordance with the monitoring plan, do quality assurance and quality control, record and maintain monitoring Data, and publicize the monitoring results to the society according to law.

5.1 Wastewater discharge monitoring

All phosphate fertilizer industrial sewage discharge units must Monitoring points shall be set at the discharge outlets and rainwater discharge outlets. The monitoring indicators and minimum monitoring frequency shall be implemented according to Table 1.

Table 1 Monitoring points, monitoring indicators and minimum monitoring frequency of phosphate fertilizer industrial wastewater discharge

Monitoring point	Monitoring index	Monitoring frequency	Direct emissions	indirect emissions
Total waste water outlet	Automatic monitoring of flow, COD, ammonia nitrogen, total phosphorus pH, fluoride, suspended matter, total nitrogen	Workshop or production facility		
Waste water outlet	Total Arsenic	Month	Domestic sewage discharge	Automatic monitoring of flow, COD, ammonia nitrogen, total phosphorus-pH, suspended solids, total nitrogen a week-
Monitoring point	Monitoring index	Monitoring frequency	Direct emissions	indirect emissions
Rainwater discharge	chemical oxygen demand, ammonia nitrogen, total phosphorus, suspended matter	month ^b	a In areas where total nitrogen is controlled, the minimum monitoring frequency of total nitrogen is implemented daily.	

^bMonthly monitoring during the drainage period. If there is no abnormal situation during the year, it can be relaxed to monitor once a quarter.

All compound fertilizer (composite fertilizer) industrial sewage discharge units must be at their total wastewater discharge outlets, domestic sewage discharge outlets, rain Monitoring

points are set at the water outlet. The monitoring indicators and minimum monitoring frequency are implemented according to Table 2.

Table 2 Monitoring point, monitoring index and minimum monitoring frequency of industrial wastewater discharge of compound fertilizer (composite fertilizer)

Monitoring point	monitoring index	Monitoring frequency	Direct emissions	indirect emissions
Total waste water outlet	Automatic monitoring of flow, COD, ammonia nitrogen, total phosphorus, total nitrogena	pH, suspended matter monthly	Domestic sewage discharge	Automatic monitoring of flow, COD, ammonia nitrogen, total phosphorus, total nitrogena-pH, suspended matter month
Chemical oxygen demand, ammonia nitrogen, suspended matter, total phosphorus month at the rainwater discharge outletb	a Prior to the release and implementation of the technical specification for automatic monitoring of total nitrogen, daily monitoring is required.			

bMonthly monitoring during the drainage period. If there is no abnormal situation during the year, it can be relaxed to monitor once a quarter.

All potash industrial sewage discharge units must set up monitoring at their total wastewater discharge, domestic sewage discharge, and rainwater discharge Point, monitoring index and minimum monitoring frequency shall be implemented according to Table 3.

Table 3 Monitoring points, monitoring indicators and minimum monitoring frequency of potassium fertilizer industrial wastewater discharge

monitor

Point

Sewage list

Bit level

Monitoring indicators	Monitoring frequency	Direct emissions	indirect emissions	Waste water
Bus Let go Key row Dirty unit	Automatic monitoring of flow, COD, ammonia nitrogen pH, suspended matter monthly	Non-focus	Sewage list	Flow, COD, ammonia nitrogen monthly quarter pH value, suspended matter
Domestic sewage discharge flow, pH value, chemical oxygen demand, ammonia nitrogen, suspended matter	Rainwater discharge chemical oxygen demand, ammonia nitrogen, suspended matter	daya	aMonitor daily during the drainage period. If there is no abnormal situation during the year, you can relax to monitor once a quarter.	

All organic fertilizer and microbial fertilizer industrial sewage discharge units must be at their total wastewater discharge outlets, domestic sewage discharge outlets, rain Monitoring points are set at the water outlet. The monitoring indicators and minimum monitoring frequency are implemented according to Table 4.