

HJ

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Technical guidelines of accounting method for pollution source intensity - Chemical fertilizer industry

污染源源强核算技术指南 化肥工业

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Foreword

To implement the Environmental Protection Law of the People's Republic of China, the Environmental Impact Assessment Law of the People's Republic of China Law on Prevention and Control of Atmospheric Pollution, Law of the People's Republic of China on Prevention and Control of Water Pollution, Law of the People's Republic of China on Prevention and Control of Environmental Noise Pollution Laws and Regulations on the Prevention and Control of Environmental Pollution by Solid Wastes of the People's Republic of China, Improving the Environmental Impact Assessment of Pollutant Discharge Permits and Construction Projects the price support system guides and regulates the strong accounting work of pollution sources in the fertilizer industry and formulates this standard.

This standard stipulates the basic principles, contents, accounting methods and requirements for strong accounting of waste gas, wastewater, noise and solid waste

pollution sources in the fertilizer industry.

Appendix A and Appendix B of this standard are informative annexes.

This standard is the first release.

This standard is formulated by the Department of Environmental Impact Assessment and Emission Management of the Ministry of Ecology and Environment, and the Department of Regulations and Standards.

This standard is mainly drafted by. Environmental Engineering Evaluation Center of the Ministry of Environmental Protection, China Ryukyu Engineering Co., Ltd., China Five Rings Engineering Co., Ltd., Sanjie Environmental Engineering Consulting (Hangzhou) Co., Ltd., China Shipping Petroleum Environmental Protection Service (Tianjin) Co., Ltd.

This standard is approved by the Ministry of Ecology and Environment on December 25, 2018.

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

Pollution Sources Strong Accounting Technology Guide Fertilizer Industry

1 Scope of application

This standard stipulates the basic principles, contents, accounting methods and requirements for the strong accounting of pollution sources in the fertilizer industry.

This standard applies to the new (reconstruction, expansion) construction projects of chemical fertilizer industry construction projects and the source strength accounting of existing engineering pollution sources.

This standard applies to the strong accounting of pollution sources during normal and abnormal emissions of the fertilizer industry, and is not applicable to sudden leaks, fires, explosions, etc.

Therefore, the source of pollution is strongly accounted for.

This standard is applicable to the main sources of pollution, waste water, noise and solid waste pollution of the main production facilities, public and auxiliary facilities of the fertilizer industry.

Accounting. The source of pollution of boilers and gas turbines implementing GB 13223 is calculated according to HJ 888.

The boiler source of GB 13271 is calculated according to HJ 991.

2 Normative references

This standard refers to the terms of the following documents. For undated references, the valid version applies to this standard.

GB 8978 Integrated Wastewater Discharge Standard GB 9078 industrial furnace kiln air pollutant discharge standards GB 12348 industrial enterprise boundary environmental noise emission standards GB 13223 Standard for emission of atmospheric pollutants from thermal power plants GB 13271 Boiler Air Pollutant Emission Standard GB 13458 Synthetic ammonia industrial water pollutant discharge standard GB 14554 Odor Pollutant Emission Standard GB 15580 Phosphate Fertilizer Industry Water Pollutant Emission Standard GB 16297 Integrated emission standards for atmospheric pollutants GB 26132 Sulfuric acid industrial pollutant discharge standard GB 50015 Building Water Supply and Drainage Design Code GB/T 16157 Determination of particulate matter in fixed pollution source exhaust gas and sampling method of gaseous pollutants HJ 2.1 Technical Guidelines for Environmental Impact Assessment HJ 2.2 Technical Guidelines for Environmental Impact Assessment Atmospheric Environment HJ 2.3 Environmental Impact Assessment Technical Guidelines Surface Water Environment HJ 2.4 Environmental Impact Assessment Technical Guidelines Acoustic Environment HJ 75 Fixed Pollution Source Flue Gas (SO₂, NO_x, Particulate Matter) Emissions Continuous Monitoring Technical Specification HJ 76 Technical requirements and test methods for continuous monitoring system for stationary pollution source flue gas (SO₂, NO_x, particulate matter) HJ/T 91 Surface Water and Wastewater Monitoring Technical Specifications HJ/T 92 Water Pollutant Total Monitoring Technical Specification HJ/T 353 Water Pollution Source Online Monitoring System Installation Technical Specification (Trial) HJ/T 354 Water Pollution Source Online Monitoring System Acceptance Technical Specification (Trial) Technical Specifications for Operation and Assessment of HJ/T 355 Water Pollution Source Online Monitoring System (Trial) 2HJ/T 356 Water Pollution Source Online Monitoring System Data Validity Discrimination Technical Specification (Trial) HJ/T 373 Technical Specifications for Quality Assurance and Quality Control of Fixed Pollution Source Monitoring (Trial) HJ/T 397 Fixed Source Exhaust Gas Monitoring Technical Specification HJ 630 Environmental Monitoring Quality Management Technical Guidelines HJ 864.1 Application for Pollution Discharge Permit and Issuance Technical Specification for Fertilizer Industry - Nitrogen Fertilizer HJ 864.2 Application for Pollution Discharge Permit and Technical Specifications for Phosphate, Potassium, Compound Fertilizer, Organic Fertilizer and Microbial Fertilizer Industry HJ 884 Guidelines for the Guidelines for Sources of Pollution Sources HJ 888 Pollution Source Power Accounting Technical Guide HJ 948.1 Self-monitoring technical guide for sewage disposal units Fertilizer industry - nitrogen fertilizer HJ 991 Pollution Source Power Accounting Technical Guide Boiler Notice on Printing and Distributing the "Guidelines for the Investigation of Pollution Sources of VOCs in the Petrochemical Industry" and "Guidelines for Leak Detection and Remediation of Petrochemical

Enterprises" (Environment Office [2015] No. 104)

3 Terms and definitions

The following terms and definitions defined by HJ 884 apply to this standard.

Chemical fertilizer industry the industry that produces chemical fertilizers. Chemical fertilizers are chemically prepared containing one or more nutrients required for the growth of crops.

Fertilizers, including nitrogen, phosphate, potash, and compound fertilizers (composite fertilizers).

Nitrogenous fertilizer industry Production of fertilizer industry with nitrogen nutrients as the main component, the main products include synthetic ammonia, urea, ammonium bicarbonate, ammonium nitrate and so on.

Phosphate fertilizer industry Production of fertilizer industry with phosphorus nutrients as the main component, the main products include the intermediate product phosphoric acid (wet method) required for the production of phosphate fertilizer, Monoammonium phosphate, diammonium phosphate, fertilizer, superphosphate, heavy superphosphate, calcium magnesium phosphate, phosphorus and potassium fertilizer, calcium magnesium phosphate fertilizer and its vice Products such as sodium fluorosilicate and potassium fluorosilicate.

Potash fertilizer industry the production of fertilizer industry with potassium nutrients as the main component, the main products include potassium chloride, potassium sulfate, potassium nitrate and potassium sulfate and magnesium fertilizer.

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Compound fertilizer industry Production of fertilizers containing at least two of the three nutrients of nitrogen, phosphorus and potassium (monoammonium phosphate, diammonium phosphate, nitrophosphate, NPK, Calcium, magnesium, phosphorus, potassium, nitrate, potassium dihydrogen phosphate, except for the industry.

Standard condition

The temperature is 273.15 K and the pressure is 101.325 kPa. The concentration of atmospheric pollutants specified in this standard is under standard conditions.

The dry gas is the benchmark.

Abnormal discharge

Production facilities or pollution prevention (control) measures are discharged under abnormal conditions. Such as the start-up and parking of production facilities and facilities, Pollutant emissions under equipment maintenance and exhaust gas pollution control