

CCS Z 04

HJ

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

HJ 981-2018

**Technical guidelines of accounting method for pollution source
intensity - Coking chemical industry**

污染源强核算技术指南 炼焦化学工业

(English Translation)

Issued on: January 1, 1970

Implemented on: January 1, 1970

Issued by: Ministry of Ecology and Environment

Table of Contents

- Foreword
- 1 Scope of application
- 2 Normative references
- 3 Terms and definitions
- 4 Source strong accounting procedures
 - 4.1 General principles
 - 4.2 Identification of pollution sources
 - 4.3 Determination of pollutants
 - 4.4 Accounting method selection
 - 4.5 Pollutant emissions accounting
 - 4.6 Summary of accounting results
- 5 Strong source method for waste gas pollution sources
 - 5.1 Material Balance Algorithm
 - 5.2 Analogy
 - 5.3 Measurement method

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 Pollution Prevention and Control Law, 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, "The Chinese People's Republic of China Laws and regulations on the Prevention and Control of Environmental Pollution by Solid Wastes, etc., improve the system of strong accounting methods for fixed sources of pollution, and guide and standardize coking chemistry this standard is formulated for the strong accounting of industrial pollution sources.

This standard specifies the basic principles, contents, and accounting methods for the strong accounting of waste gas, wastewater, noise, and solid waste pollution sources in the coking chemical industry.

Law and requirements, etc.

Appendix A to Appendix E 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, Hebei Zhonglian Energy Environmental Protection Technology Co., Ltd., Metallurgical Worker Industry Planning Institute.

This standard is approved by the Ministry of Ecology and Environment on November 27, 2018.

This standard has been implemented since January 1, 2019.

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

Technical Guide for Strong Sources of Pollution Sources Coking Chemical 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 coking chemical industry.

This standard applies to the new (reconstruction, expansion) construction project pollution source of the coking chemical industry and the strong accounting of existing engineering pollution sources.

This standard applies to the source and strong accounting of normal and abnormal emissions of the coking chemical industry, and is not applicable to sudden leaks, fires, explosions, etc.

Strong source accounting in the event of an accident.

This standard applies to waste gas from production processes such as coal preparation, coking, coke treatment, gas purification, coking chemical product recovery and thermal energy utilization.

Wastewater, noise, and solid waste pollution sources are strongly accounted for. Coking furnace types include conventional coke ovens, heat recovery coke ovens, and semi-coke (blue carbon) carbonization furnaces.

The source of boiler pollution carried out by GB 13223 is calculated according to HJ 888; the source of boiler pollution by GB 13271 is strong according to the boiler.

The source code for strong source accounting for pollution is accounted for.

2 Normative references

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

GB 12348 industrial enterprise boundary noise emission standard GB 13223 Thermal Power Plant Emission Standards for Thermal Power Plants GB 13271 Boiler Air Pollutant Emission Standard GB 16171 Coking Chemical Industry Pollutant Emission Standard GB/T 16157 Determination of particulate matter in fixed pollution source exhaust gas and sampling method of gaseous pollutants HJ 2.1 General Outline of Technical Guidelines for Environmental Impact Assessment of Construction Projects 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) continuous monitoring technical specifications HJ 76 Fixed pollution source flue gas (SO₂, NO_x, particulate matter) continuous monitoring system technical requirements and testing methods 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) HJ/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 708 Technical Guidelines for Environmental Impact Assessment Steel Construction Project HJ 819 General Guidelines for Self-Monitoring Technical Units of Sewage Units HJ 878 Self-monitoring technical guide for sewage disposal units Steel industry and coking chemical industry HJ 884 Guidelines for Strong Sources of Pollution Sources HJ 888 Pollution Source Power Accounting Technical Guide Announcement on Issue of Pollution Discharge Coefficient and Material Accounting Method for Calculating Pollutant Emissions (Protection of Environmental Protection Department, No. 81, 2017) number)

3 Terms and definitions

The following terms and definitions apply to this standard.

Gas total sulfur content total sulfur in gasoline Refers to the total mass of all sulfur elements in a unit volume of gas, including inorganic sulfur, organic sulfur and so on.

Standard condition

It refers to the state when the temperature is 273.15 K and the pressure is 101325 Pa. The concentration of atmospheric pollutants specified in this standard is in the standard state.

The dry gas is the benchmark.

Abnormal discharge

Refers to the discharge of pollutants under abnormal conditions of pollution prevention (control) facilities, such as dust removal facilities, desulfurization facilities, denitration facilities failure or inspection Emissions under abnormal conditions such as maintenance.

4.1 General principles

The strong source accounting procedures include pollution source identification and pollutant determination, accounting method and parameter selection, source strength accounting, and accounting results.

For details, see HJ 884 for details.

4.2 Identification of pollution sources

Coking chemical industry pollution source identification should cover all places, equipment or equipment that may generate waste gas, wastewater, noise, solid waste pollutants or the device is shown in Table 1.

The identification of pollution sources shall comply with the requirements of HJ 2.1, HJ 2.2, HJ 2.3, HJ 2.4, HJ 708 and so on.

4.3 Determination of pollutants

The determination of pollutants in various pollution sources in the coking chemical industry shall include pollutants in national and local emission standards such as GB 16171.

Table 1. Contaminants that may be produced in the production process but not included in national or local pollutant discharge standards may be based on environmental quality standards.

Other industry standards, other national emission standards, local people's governments or eco-environmental authorities, environmental quality improvement needs, according to raw materials the materials and fuel use and production process conditions are analyzed and determined.

4.4 Accounting method selection

The methods of calculating the source of pollution in the coking chemical industry include the actual measurement method, the analogy method, the material balance algorithm and the pollution yield coefficient method, etc.