

HJ

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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**Technical specification for application and issuance of
pollutant permit - Coal processing - Production of synthesis
gas and liquid fuel**

排污许可证申请与核发技术规范 煤炭加工-合成气和液体燃料生产
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Foreword

In order to implement the Environmental Protection Law of the People's Republic of China, the Air Pollution Prevention and Control Law of the People's Republic of China, and the Law of the People's Republic of China on the Prevention and Control of Water Pollution, the Law of the People's Republic of China on the Prevention and Control of Soil Pollution, etc.

Notice on the Implementation Plan of the Pollutant Discharge Permit System (Guobanfa [2016] No. 81) and the "Administrative Measures for Pollution Discharge Permits (Trial)" (Ministry of Environmental Protection Order No. 48), improve the technical support system for pollutant discharge permits, guide and standardize the production of synthetic gas and coal in the coal processing industry this standard is formulated for the application and issuance of pollutant discharge permits for liquid fuel pollutants.

This standard stipulates the basic conditions for the application and issuance of pollutant discharge permits by units producing synthetic gas and liquid fuels in the coal processing industry.

Reporting requirements, determination of permitted emission limits, calculation of actual emissions, methods of compliance determination, self-monitoring, and environmental management accounts Environmental management requirements such as the implementation report of pollution discharge permits, and proposed feasible technical requirements for pollution prevention and control.

Appendix A to Appendix C of this standard are informative appendices.

This standard is issued for the first time.

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

Drafting organizations of this standard. Environmental Engineering Evaluation Center of the Ministry of Ecology and Environment, Qingdao Ossay Environmental and Safety Technology Co., Ltd., China Huanqiu Engineering Co., Ltd., China Coal Processing and Utilization Association, Beijing Feiyan Petrochemical Environmental Technology Development Co., Ltd.

This standard was approved by the Ministry of Ecology and Environment on February 28, 2020.

This standard will be implemented on February 28, 2020.

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

1 Technical specifications for pollutant discharge permit application and issuance

Coal processing-synthesis gas and liquid fuel production 1.Scope of application this standard stipulates the basic conditions for the application and issuance of pollutant discharge permits by units producing synthetic gas and liquid fuels in the coal processing industry.

Reporting requirements, determination of permitted emission limits, actual emission accounting, technical methods for compliance determination, self-monitoring, environmental management Environmental management requirements such as the ledger and the implementation report of the pollution discharge permit put forward feasible technical requirements for pollution prevention and control.

This standard is applicable to guide the management information of the national emission permits for the production of synthetic gas and liquid fuel in the coal processing industry the platform fills in relevant information, which is suitable for guiding the issuing authority to review and determine the requirements of the pollutant discharge permit.

This standard is applicable to the emissions of air pollutants and water pollutants from the

coal processing industry that produces syngas and liquid fuels.

Pollution permit management.

In the coal processing industry that produces synthetic gas and liquid fuel emissions, the "Synthetic Resin Industry Pollutant Emission Standard" (GB

31572) pollution-producing facilities and discharge outlets shall be applicable to the "Pollution Discharge Permit Application and Issuance Technical Specification Petrochemical Industry" (HJ 853); implementation the "Emission Standard of Air Pollutants for Thermal Power Plants" (GB 13223) is applicable to the "Pollution Permit Application for Thermal Power Industry" and issuance of technical specifications; implementation of the "Boiler Air Pollutant Emission Standard" (GB 13271) for pollution-producing facilities and discharge outlets shall be applicable to the "Emission Application for Pollution Permit and Issuance of Technical Specifications for Boilers (HJ 953).

This standard does not make provisions but discharges industrial waste water, waste gas or other toxic and harmful air pollutants specified by the state.

Pollution facilities and discharge outlets shall be implemented in accordance with the "General Rules for the Application and Issuance of Pollution Permits" (HJ 942).

2 Normative references

This standard quotes the following documents or their clauses. For undated reference documents, the effective version is applicable to this standard.

GB 8978 Integrated Wastewater Discharge Standard GB 9078 Emission Standard of Air Pollutants for Industrial Furnaces GB 13223 Emission Standard of Air Pollutants for Thermal Power Plants GB 13271 Boiler Air Pollutant Emission Standard GB 14554 Emission Standard of Odor Pollutants GB 16297 Comprehensive Emission Standard of Air Pollutants GB 18484 pollution control standard for hazardous waste incineration GB 18597 Pollution Control Standard for Hazardous Waste Storage GB 18599 Pollution control standard for general industrial solid waste storage and disposal sites GB 31572 Pollutant Emission Standard for Synthetic Resin Industry GB 37822 Unorganized emission control standard of volatile organic compounds GB/T 4754 Classification of National Economic Industries GB/T 16157 Determination of particulate matter in exhaust from stationary sources and sampling method for gaseous pollutants GB/T 50934 Petrochemical Engineering Anti-seepage Technical Code HJ/T 55 Technical Guidelines for Monitoring Unorganized Emissions of Air Pollutants HJ 75 Technical specification for continuous monitoring of emission of stationary pollution source flue gas (SO₂, NO_x, particulate matter) HJ 76 Technical requirements and testing methods for continuous monitoring system for emission of stationary pollution source flue gas (SO₂, NO_x, particulate matter) HJ 91.1 Technical Specification for Wastewater Monitoring 2HJ 212 Data transmission standard for online automatic monitoring (monitoring) system of pollution sources HJ 353

Water Pollution Source Online Monitoring System (CODCr, NH₃-N, etc.) Installation
 Technical Specification HJ 354 Technical Specification for Acceptance of Online Water
 Pollution Source Monitoring System (CODCr, NH₃-N, etc.) HJ 355 water pollution source
 online monitoring system (CODCr, NH₃-N, etc.) operation technical specifications HJ 356
 Water pollution source online monitoring system (CODCr, NH₃-N, etc.) data validity
 judgment technical specification HJ/T 397 Fixed source exhaust gas monitoring technical
 specification HJ 493 Technical Regulations for Storage and Management of Water Quality
 Samples HJ 494 Technical Guide for Water Quality Sampling HJ 495 Technical Regulations
 for Water Quality Sampling Scheme Design HJ 521 Wastewater Discharge Law Code (Trial)
 HJ 608 Code Rules for Pollutant Discharge Units HJ 819 General Rules of Technical
 Guidelines for Self-monitoring of Pollutant Discharge Unit HJ 853 Pollutant Discharge
 Permit Application and Issuance Technical Specification Petrochemical Industry HJ 942
 General Rules of Technical Specifications for Pollution Discharge Permit Application and
 Issuance HJ 944 Technical Specification for Environmental Management Ledger and
 Pollution Permit Implementation Report of Pollutant Discharge Units (Trial) "List of
 Classification Management of Discharge Permits for Fixed Pollution Sources"
 "Administrative Measures for Pollution Discharge Permits (Trial)" (Ministry of Environmental
 Protection Order No. 48) "Technical Requirements for Standardized Remediation of
 Sewage Outlets (Trial)" (Environmental Supervision [1996] No. 470)

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 Pollutant emission unit of coal-based synthesis gas

Refers to the use of coal or coke as raw materials, oxygen (air, oxygen-enriched or pure oxygen), water vapor, etc. as gasification agent, passing under high temperature conditions the chemical reaction converts the combustible part of coal or coke into a gas pollutant discharge unit. The effective components of the gas include carbon monoxide, hydrogen and methane.

The synthesis gas is used in industrial production or as a raw material for chemical production.

3.2 Pollutant emission unit of coal-based liquid fuel

Refers to the conversion of solid coal into liquid fuels, chemical raw materials and products (such as coal to methanol, coal to dimethyl Ether, coal-to-glycol, coal-to-oil, coal-to-olefin, etc.)