

CCS Z 23

HJ

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

HJ 2022-2012

**Technical specifications for coking wastewater treatment
(English Translation)**

Issued on: December 24, 2012

Implemented on: March 1, 2013

Issued by: Ministry of Ecology and Environment

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Foreword

To implement the Environmental Protection 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, Design, construction and operation management of Fan Coking Wastewater Treatment Project, prevention and control of environmental pollution, protection of the environment and human health Kang, the development of this standard.

This standard specifies the process of coking wastewater treatment engineering design, engineering construction, project acceptance and operation management.

Technical requirements.

This standard is a guiding standard.

This standard is the first release.

This standard was formulated by the Science and Technology Standards Department of the Ministry of Environmental Protection.

This standard is mainly drafted by. Liaoning Provincial Cleaner Production Guidance Center, China Metallurgical Engineering Co., Ltd.

This standard was approved by the Ministry of Environmental Protection on December 24, 2012.

This standard has been implemented since March 1, 2013.

This standard is explained by the Ministry of Environmental Protection.

Technical specification for coking wastewater treatment engineering

1 Scope of application

This standard specifies the technical requirements for the design, construction, acceptance, operation and management of coking wastewater treatment projects.

This standard is applicable to coking wastewater treatment projects and can be used as environmental impact assessment and environmental protection facilities for coking industrial construction projects.

Technical basis for design, construction, project completion environmental protection acceptance, daily operation management.

2 Normative references

The contents of this standard refer to the terms of the following documents. For undated references, the valid version applies to this standard.

GB 3836.1~4 Explosion-proof electrical equipment for explosive atmosphere GB 4064 General Rules for Safety Design of Electrical Equipment GB 5044 Classification of occupational exposure to toxic hazards GB 5083 General safety and hygiene design of production equipment GB 6222 industrial enterprise gas safety regulations GB 12158 General Guidelines for Preventing Electrostatic Accidents GB 12348 Environmental noise emission standards for industrial enterprises GB 12523 Construction site boundary noise limit GB 12710 coking safety regulations General rules for safety and health requirements of GB 12801 production process GB 18484 Hazardous Waste Incineration Pollution Control Standard GB 18597 Hazardous Waste Storage Pollution Control Standard GB 18599 General industrial solid waste storage and disposal site pollution control standards GB 50010 concrete structure design specification GB 50011 seismic design code for buildings GB 50014 Outdoor Drainage Design Code GB 50015 Building Water Supply and Drainage Design Code GB 50016 Building Design Fire Code Design code for heating, ventilation and air conditioning of GB 50019 industrial enterprises GB 50025 Collapsible loess area building code GB 50032 Specification for seismic design of outdoor water supply and drainage and gas thermal engineering GB 50034 Industrial Enterprise Lighting Design Standard GB 50046 industrial building anti-corrosion design specification GB 50052 design

specification for power distribution system GB 50054 Low Voltage Distribution Design Specification GB 50057 lightning protection design code for buildings GB 50058 Specification for design of electrical installations for explosion and fire hazard environments GB 50069 Water supply and drainage engineering structure design specification GB 50116 Fire Automatic Alarm System Design Specification GB 50126 Construction specifications for industrial equipment and pipeline insulation engineering GB 50140 Building Fire Extinguisher Configuration Design Specification GB 50185 Industrial equipment and pipeline insulation engineering construction quality acceptance specification GB 50191 seismic design code for structures GB 50212 Engineering construction anti-corrosion engineering construction and acceptance specifications GB 50235 Industrial enterprise metal pipe engineering construction and acceptance specifications GB 50236 Field equipment, industrial pipeline welding engineering construction and acceptance specifications GB 50242 Construction water supply and drainage and heating engineering construction quality acceptance specification GB 50243 Ventilation and air conditioning engineering construction and acceptance specifications GB 50254 Electrical installation engineering low-voltage electrical installation acceptance specification GB 50256 Electrical installation and construction crane electrical installation construction and acceptance specifications GB 50257 Electrical installation engineering explosion and fire hazard environment electrical installation construction and acceptance specifications GB 50268 Water supply and drainage pipeline engineering construction and acceptance specifications GB 50275 Compressor, fan and pump installation engineering construction and acceptance specifications GB 50300 Unified standard for construction quality acceptance of construction projects GB 50316 Industrial Metal Pipe Design Specification GB 50332 Water supply and drainage engineering pipeline structure design specification GB/T 50375 Construction Engineering Construction Quality Evaluation Standard GB/T 50380 Engineering Construction Design Enterprise Quality Management Practice GB/T 6067 crane safety regulations GB J65 Grounding Design Specification for Industrial and Civil Power Devices GB J87 industrial enterprise noise control design specification GB J141 Water supply and drainage structure construction and acceptance specifications GB J232 electrical installation engineering construction and acceptance specifications GBZ 1 industrial enterprise design hygiene standard GBZ 2.1 Workplace harmful factors Occupational exposure limits Chemical harmful factors GBZ 2.2 Workplace harmful factors occupational exposure limit physical factors CECS 162 Water Supply and Drainage Instrumentation Automation Control Engineering Construction and Acceptance Specifications HG20571 Safety and Health Design Regulations for Chemical Enterprises JGJ79, J220 Building Foundation Treatment Technical Specifications TSGZ0004 Basic requirements for quality assurance system for manufacturing, installation, modification and maintenance of special equipment TSGD3001 Pressure Pipe Installation License Rules TSGR1001 Pressure Vessel Pressure Pipe Design License Rules TSGR3001 Pressure Vessel Installation and Repair Maintenance License Rules Administrative Measures for Environmental Protection Acceptance of Completion of Construction Projects Order No. 13

of the State Environmental Protection Administration (2001)

3 Terms and definitions

3.1

The following terms and definitions apply to this standard.

3.2 Coking wastewater coking wastewater

It refers to waste water generated during coal coking, gas purification, chemical product recovery and chemical product refining.

3.3 Excess ammonia water

Refers to the coke oven waste gas condensate after separation of tar residue and tar, the output of which depends mainly on the moisture content of coking coal.

3.4 Steamed ammonia waste water from ammonia stripper

Refers to the wastewater after removal of volatile ammonia and fixed ammonia by steaming ammonia.

3.5 Anoxic denitrification anaerobic denitrification

Refers to the process of denitrifying denitrification by using anoxic oxygen for anaerobic respiration under anaerobic conditions.

3.6 Reflux nitrified liquid

Refers to aerobic nitrifying liquid containing nitrate and nitrite.

3.7 Uniform and pool equalizing tank

Refers to the pool used to homogenize the quality of coking wastewater.

3.8 Semi-coke carbocoal

Also known as blue charcoal, it refers to the solid product obtained by dry distillation of coal at low temperature (500 ~ 700) °C.

4 Contaminants and pollution loads

4.1

For the existing coking wastewater renovation project, the pollutants and pollution load shall be determined through actual measurement; for the new construction and reconstruction and expansion of coking for the coking wastewater treatment project of the project, the