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

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**Technical specifications for pulp and paper industry
wastewater treatment
(English Translation)**

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Foreword

To implement the "Environmental Protection Law of the People's Republic of China" and the "Water Pollution Prevention and Control Law of the People's Republic of China" this standard is formulated for the construction and operation management of papermaking wastewater treatment projects, prevention of environmental pollution, protection of the

environment and human health.

This standard specifies the technical requirements for the design, construction, acceptance, operation and maintenance of wastewater treatment engineering in the pulp and paper industry.

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 was drafted. Shandong Environmental Protection Research and Design Institute, Shandong Light Industry Design Institute, Xinxiang, Henan Province Municipal Environmental Protection Research and Design Institute.

This standard was approved by the Ministry of Environmental Protection on March 19, 2012.

This standard has been implemented since June 1, 2012.

This standard is explained by the Ministry of Environmental Protection.

Technical specification for pulping and papermaking wastewater treatment engineering

1 Scope of application

This standard specifies the technical requirements for the design, construction, acceptance, operation and maintenance of wastewater treatment engineering in the pulp and paper industry.

This standard applies to pulp and paper enterprises that use chemical pulping, chemical mechanical pulping, mechanical pulping and waste paper pulping processes.

The wastewater treatment project of the industry can be used as environmental impact assessment, feasibility study, design, construction, installation, commissioning, acceptance, Technical basis for operation and supervision.

2 Normative references

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

GB 3544 Water Pollutant Emission Standard for Pulp and Paper Industry GB 4284
Contaminant control standard for agricultural sludge GB 7251 low-voltage switchgear and
control equipment GB 12348 Environmental noise emission standards for industrial
enterprises General rules for safety and health requirements of GB 12801 production
process GB 14554 Odor Pollutant Discharge Standard GB 18599 General industrial solid
waste storage and disposal site pollution control standards GB 50009 Building Structure

Load Specification GB 50014 Outdoor Drainage Design Code GB 50015 Building Water Supply and Drainage Design Code GB 50016 Building Design Fire Code GB 50019 Heating, Ventilation and Air Conditioning Design Code GB 50033 Architectural lighting design standard GB 50034 Architectural Lighting Design Standard GB 50046 industrial building anti-corrosion design specification GB 50052 design specification for power distribution system GB 50053 10kV and below substation design specifications GB 50054 Low Voltage Distribution Design Specification GB 50055 general purpose electrical equipment power distribution design specification GB 50057 lightning protection design code for buildings GB 50069 Water supply and drainage engineering structure design specification GB 50093 automation instrument engineering construction and acceptance specification GB 50108 Underground Engineering Waterproof Technical Specifications GB 50116 Fire Automatic Alarm System Design Specification GB 50168 Electrical installation engineering cable line construction and acceptance specifications GB 50169 Electrical installation engineering grounding device construction and acceptance specifications GB 50187 General Plan for Design of Industrial Enterprises GB 50204 Concrete Structure Engineering Construction Quality Acceptance Specification GB 50208 Underground Waterproof Engineering Quality Acceptance Specification General specification for construction and acceptance of GB 50231 mechanical equipment installation engineering GB 50236 Field equipment, industrial pipeline welding engineering construction and acceptance specifications GB 50243 Ventilation and air conditioning engineering quality acceptance specification GB 50254 Electrical installation engineering Low-voltage electrical installation 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, pump installation engineering construction and acceptance specifications GB 50334 Urban Wastewater Treatment Plant Engineering Quality Acceptance Specification GB 50336 Design code for water in buildings GB J22 factory mine road design specification GB J125 Water supply and drainage design basic terminology standard GB J141 Water supply and drainage structure construction and acceptance specifications GB/T 15562.1 Environmental protection graphic mark discharge port (source) GB/T 18920 Urban Wastewater Recycling Urban Miscellaneous Water Quality GB/T.19923 Urban sewage recycling industrial water quality GB/T 28001 Occupational Health and Safety Management System Specification GB/T 50335 Wastewater Recycling Engineering Design Specification CECS97 blast aeration system design procedures Design code for CECS111 sewage activated sludge treatment in cold regions Construction and acceptance procedures for CECS162 water supply and drainage instrument automation control engineering CJJ60 urban sewage treatment plant operation, maintenance and safety technical regulations HJ 576 Anaerobic-anoxic-aerobic activated sludge process technical specification HJ 577 Sequencing Batch Activated Sludge Wastewater Treatment Engineering Technical Specification HJ 578 Oxidation ditch activated sludge method sewage treatment engineering technical specification HJ 2006 Technical Specifications for

Sewage Coagulation and Flocculation Treatment Engineering HJ 2007 sewage air flotation treatment engineering technical specification HJ 2008 sewage filtration treatment engineering technical specification HJ/T 15 Environmental Protection Product Technical Requirements Ultrasonic Open Channel Sewage Flowmeter HJ/T 92 Water Pollutant Total Monitoring Technical Specification HJ/T 96 pH water quality automatic analyzer technical requirements HJ/T 101 Ammonia Nitrogen Water Quality Analyzer Technical Requirements HJ/T 242 environmental protection product technical requirements belt press filter for sludge dewatering HJ/T 247 Technical requirements for environmental protection products Vertical shaft mechanical surface aerator HJ/T 251 environmental protection product technical requirements Roots blower HJ/T 252 environmental protection product technical requirements, microporous aerator HJ/T 262 environmental protection product technical requirements grille decontamination machine HJ/T 265 environmental protection product technical requirements scraper HJ/T 278 environmental protection product technical requirements single-stage high-speed aeration centrifugal blower HJ/T 279 environmental protection product technical requirements push flow submersible mixer HJ/T 336 Environmental Protection Product Technical Requirements Submersible Sewage Pump HJ/T 377 Environmental Protection Product Technical Requirements Chemical Oxygen Demand (CODcr) Water Quality Online Automatic Monitor HJ/T 354 water pollution source online monitoring system acceptance technical specification HJ/T 369 Environmental Protection Product Technical Requirements Dosing Device for Water Treatment HJ/T 408 Construction Project Completion Environmental Protection Acceptance Technical Specification Paper Industry NY/T 1220.2 Technical Specifications for Biogas Engineering Part 2. Gas Supply Design NY/T 1222 Large-scale livestock and poultry farm biogas engineering design specification QB1533 Code of occupational safety and hygiene design for pulp and paper enterprises "Measures for Completion and Acceptance of Construction Projects (Engineering)", Construction (1990) No. 1215 Measures for the Administration of Environmental Protection Acceptance for Completion of Construction Projects.2001 Order No. 13 of the State Environmental Protection Administration "Administrative Measures for Automatic Monitoring of Pollution Sources".2005 State Environmental Protection Administration Order No. 28 Regulations on the Safety Management of Dangerous Chemicals, State Council Order No. 591, 2011 Technical Requirements for Standardized Remediation of Sewage Discharges (Trial) Environmental Supervision [1996] No. 470

3 Terms and definitions

The terms in GB J125 and GB 3544 and the following terms and definitions apply to this standard.

3.1 Pulp and paper industry wastewater

Refers to the production of pulp from plants or waste paper, and the production of paper, cardboard and other products from pulp.