

HJ

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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Technical specifications of starch industry wastewater treatment (English Translation)

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Foreword

For the implementation of the "People's Republic of China Environmental Protection Law", "People's Republic of China Water Pollution Prevention Law" and "starch industrial water Pollutant emission standards "to regulate starch industry wastewater treatment project construction and operation, control environmental pollution, protect the environment and human health, Development of this standard.

This standard is China's current emission standards and pollution control technology, provides for corn, wheat and potato as the Production of raw materials and subsequent products of starch production wastewater treatment engineering design, construction, inspection and operation and maintenance and other technical requirements.

This standard is a guiding standard.

This standard is the first release.

This standard is developed by the Ministry of Environmental Protection Science, Technology organization.

This standard drafting units. China Environmental Protection Industry Association, Shandong ten Environmental Energy Limited.

This standard MEP October 24, 2014 for approval.

This standard since January 1, 2015 implementation.

The standard explanation by the Ministry of Environmental Protection.

Starch Wastewater Treatment Project Technical Specifications

1 Scope

This standard specifies the starch wastewater treatment project design, construction, inspection and operation and maintenance and other technical requirements.

This standard applies to wastewater treatment project starch and starch sugar production enterprises or production facilities can be used as environmental impact assessment, engineering Consulting, after running the design, construction, completion and acceptance of environmental protection and management of the technical basis. Water quality at similar Starch Wastewater Processing may be performed with reference to this standard.

2 Normative references

The standard content of the following documents cited in the articles. For undated references, the effective version applies to this standard.

GB/T 156 standard voltage GB 3096 acoustic environment quality standards GB 7251.1 Low-voltage switchgear and control equipment - Part 1. General GB 7251.2 Low-voltage switchgear and control equipment Part 2. Particular requirements for busbar trunking systems (busways) GB 7251.3 Low-voltage switchgear and control equipment - Part 3. Non-professionals can enter the venue of the opening and low voltage Off and control equipment - Particular requirements for distribution boards GB 7251.4 Low-voltage switchgear and control equipment - Part 4. Particular requirements for assemblies for construction equipment (ACS) of GB 7251.5 Low-voltage switchgear and control equipment Part 5. The utility grid power distribution equipment to the special GB 12348 industrial enterprises of environmental noise emission standard plant boundary GB/T 12801 General requirements for the production process safety and health GB 14554 standard malodorous emissions GB 18599 general industrial solid waste storage and disposal site pollution control standards GB/T 18883 indoor air quality standards GB 25461 starch industrial water pollutant discharge standards GB/T 50009 building structural load specifications GB 50014 outdoor drainage design specifications GB 50015 Water and Drainage Design Specification GB 50016 architectural design code for fire protection GB 50019 civil heating, ventilation and air conditioning design GB 50033 architectural lighting design standards GB 50037 Code for design of building ground GB 50046 Code for anticorrosion design of industrial buildings GB 50052 power supply and distribution system design specifications GB 50053 20kV substation and below design specifications GB 50054 low voltage power distribution design specifications GB 50055 Universal power distribution equipment design specifications GB 50057 Lightning in design GB 50069 Water Supply and Drainage

Structural design code GB 50093 Automation Instrumentation Construction and Quality Acceptance GB 50108 Technical code for waterproofing of underground works GB 50116 automatic fire alarm system design specifications GB 50168 electric equipment installation engineering construction and acceptance of cable lines GB 50169 electric equipment installation engineering construction and acceptance of grounding devices GB 50191 Code for seismic design of structures GB 50194 engineering construction site for electrical safety norms GB 50204 Construction Quality Acceptance of Concrete Structure Engineering GB 50208 Underground Waterproof Engineering Quality Acceptance GB 50222 interior decoration of buildings for fire protection design GB 50231 mechanical equipment installation construction and acceptance of universal norms GB 50236 field equipment, industrial pipe welding engineering for construction GB 50243 Construction Quality Acceptance of Ventilation and Air Conditioning Engineering GB 50254 electrical low-voltage electrical equipment installation engineering construction and acceptance GB 50255 electric equipment installation engineering power converter equipment for construction and acceptance GB 50256 electrical equipment installation engineering construction and acceptance of electric device GB 50257 electrical equipment installation engineering explosion and fire hazard electrical equipment installation and acceptance GB 50268 and drainage in construction and acceptance GB 50275 fans, compressors, pumps, installation engineering construction and acceptance GB/T 50334 municipal sewage treatment plant construction quality acceptance GB 50335 Code for design of wastewater reclamation and reuse GB 50395 video security monitoring systems engineering design specifications GB J 87 Industrial Enterprise Noise Control Design Specification GB J 115 industrial television systems engineering GB J 141 water supply and drainage construction and acceptance of structures GB Z 1 Design of Industrial Enterprises hygiene standards HJ/T 91 surface water and wastewater monitoring technical specifications HJ/T 242 environmental protection product sludge dewatering with belt filter press HJ/T 245 environmental protection product hanging packing HJ/T 246 environmental protection product filler suspension HJ/T 247 environmental protection product vertical shaft mechanical surface aerator HJ/T 251 environmental protection product Roots Blower HJ/T 252 environmental protection product, the microporous aerator HJ/T 259 environmental protection product brush aerator HJ/T 260 environmental protection product blast submersible aerator HJ/T 263 environmental protection product jet aerator HJ/T 278 environmental protection product - high-speed single-stage centrifugal blower aeration HJ/T 280 environmental protection product carousel aerator HJ/T 281 environmental protection product diffuser aeration HJ/T 283 environmental protection product and Van filter frame filter HJ/T 335 environmental protection product with concentrated sludge dewatering machine HJ/T 336 environmental protection product submersible sewage pump HJ/T 369 environmental protection product used in water treatment dosing device HJ 576 Anaerobic - anoxia - aerobic activated sludge wastewater treatment project technical specifications HJ 577 sequencing batch activated sludge wastewater treatment project technical specifications HJ 578 oxidation ditch activated sludge wastewater treatment project technical specifications HJ 2013 upflow

anaerobic sludge blanket reactor wastewater treatment engineering technical specifications
HJ 2023 anaerobic expanded granular sludge bed reactor wastewater treatment project
technical specifications Cold regions sewage activated sludge process design procedures
CECS 111 CECS 112 oxidation ditch design procedures "Project (Project) final acceptance
approach" (State Planning Committee Building [1990] No. 1215) "Outfall standardized
remediation technical requirements" (trial) EM [1996] No. 470 "Acceptance of completed
construction projects management" (2001 SEPA Order No. 13) "Pollution automatic
monitoring and management approach" (2005 SEPA Order No. 28)

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 Starch wastewater starch industry wastewater

Wastewater refers to corn, wheat, or potato starch as raw material to produce starch sugar
produced during each step sum.

3.2 Starch sugar wastewater

Starch as raw material, the sum of the waste water through the catalyst (enzyme or acid)
and water to produce sugar produced during each step.

3.3 Starch Wastewater modified starch wastewater

Starch as raw material, through physical and chemical processes with varying degrees of
change in their physical and chemical properties of the preparation of modified starch
production process Total waste water generated in each step.

3.4 Corn steep water corn steepwater

Means wastewater contains large amounts of soluble proteins, organic phosphorus and
other substances in the production process of corn starch corn soaking process produced.

3.5 Conveying washing wastewater conveying and cleaning wastewater

It refers to potato starch production process of raw materials, cleaning, transporting step
that contains a large amount of sediment, suspended solids and other contaminants
Wastewater.

4 of pollutants and pollution load