

ICS 13.030.40
CCS Z 27

HJ

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

HJ 2042-2014

**General specifications of engineering and technology for
hazardous waste disposal
(English Translation)**

Issued on: June 10, 2014

Implemented on: September 1, 2014

Issued by: Ministry of Ecology and Environment

Table of Contents

Foreword

1 Scope of application

2 Normative references

3 Terms and definitions

3.1 Hazardous waste

3.2 Incineration

3.3 Secure landfill secure landfill

4 Disposal technology applicability and choice

4.1 Waste Disposal Technology Classification

4.2 Applicability of hazardous waste disposal technology

4.3 Principles for the selection of hazardous waste disposal technologies

5 General requirements

6 Overall design

6.1 General design

6.2 General layout

6.3 Factory road

7 System configuration requirements

7.1 General requirements

7.2 Hazardous Waste Receiving System Requirements

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 Environmental Pollution by Solid Wastes, Construction and operation of hazardous waste disposal projects to achieve the goal of reducing, recycling and harmless hazardous waste disposal, and controlling environmental risks, Improve the quality of the environment and develop this standard.

This standard stipulates the application of hazardous waste disposal technology and the process of engineering design, construction, acceptance, operation management, etc.

Relevant technical requirements and management regulations.

This standard is a guidance document.

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. Shenyang Environmental Science Research Institute, Institute of High Energy Physics, Chinese Academy of Sciences, National Environmental Protection Hazardous Waste Material Disposal Engineering Technology Center.

This standard was approved by the Ministry of Environmental Protection on June 10, 2014.

This standard has been implemented since September 1, 2014.

This standard is explained by the Ministry of Environmental Protection.

Technical guidelines for hazardous waste disposal engineering

1 Scope of application

This standard specifies general technical and management requirements for the design, construction, acceptance and operation of hazardous waste disposal projects.

This standard is applicable to the construction, reconstruction and expansion of hazardous waste centralized disposal projects and the construction of hazardous waste disposal workers.

Cheng, can macro-guide the feasibility study, environmental impact assessment, engineering design, engineering construction, engineering acceptance of hazardous waste disposal engineering and the operation and management of facilities.

This standard is a general technical specification for hazardous waste disposal projects and is applicable to all types of hazardous waste disposal projects. For existing special jobs the hazardous waste disposal project of the technical specification shall also implement special technical specifications at the same time; for the special engineering technical specifications that have not yet been issued the hazardous waste disposal project shall comply with the relevant provisions of this standard. Medical waste as a special type of hazardous waste, its management technology the surgical requirements refer to the relevant standards for medical waste.

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 3096 Acoustic Environmental Quality Standard GB 5085 Hazardous Waste Identification Standard GB 8978 Integrated Wastewater Discharge Standard 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 16297 Integrated emission standards for atmospheric pollutants GB 18484 Hazardous Waste Incineration Pollution Control Standard GB 18597 Hazardous Waste Storage Pollution Control Standard GB 18598 Hazardous Waste Landfill Pollution Control Standard GB 50028 town gas design code GB 50034 Architectural Lighting Design Standard GB 50052 design specification for power distribution system GB 50057 lightning protection design code for buildings GB 50062 Specification for relay protection and automatic devices for electrical installations GB 50156 Specification for design and construction of refueling and filling stations GB 50202 Code for construction quality acceptance of building foundation engineering GB 50203 Masonry Construction Quality Acceptance Specification GB 50204 Concrete Structure Engineering Construction Quality Acceptance Specification GB 50205 Steel Structure Engineering Construction Quality Acceptance Specification GB 50221 Steel Structure Engineering Quality Assessment Standard 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 50254 Electrical installation engineering Low-voltage electrical installation and acceptance specifications GB 50255 Electrical installation engineering cable line construction and acceptance specifications 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 50258 Electrical installation engineering 1kV and below wiring construction and acceptance specifications GB 50259 Electrical installation engineering electrical lighting installation construction and acceptance specifications GB 50275 Compressor, fan, pump installation engineering construction and acceptance specifications GB 50300 Unified standard for construction quality acceptance of construction projects GB 50335 Wastewater Recycling Engineering Design Specification GB J14 Outdoor Drainage Design Code GB J16 Building Design Fire Code GB J19 Heating Ventilation and Air Conditioning Design Specification GB J22 factory mine road design specification GB J140 building fire extinguisher configuration design specification GB/T 15555.1 Determination of total mercury in solid waste - Cold atomic absorption spectrophotometric method GB/T 15555.2 Determination of cadmium, copper, lead and zinc in solid waste atomic absorption spectrophotometric method GB/T 15555.3 Determination of arsenic in solid wastes - Diethyldithiocarbamate silver spectrophotometric method GB/T 15555.4 Determination of hexavalent chromium in solid waste - Diphenylcarbazide spectrophotometric method GB/T 15555.5 Determination of total chromium in solid waste - Diphenylcarbazide spectrophotometric method GB/T 15555.6 Determination of total chromium in solid waste - Direct inhalation flame atomic absorption spectrophotometric method GB/T 15555.7 Determination of hexavalent chromium in solid wastes GB/T 15555.8 Determination of total chromium in solid waste - Ammonium sulphate titration GB/T 15555.9 Determination of nickel in solid waste - Direct inhalation flame atomic absorption spectrophotometric method GB/T 15555.10 Determination of nickel in solid

waste - succinimide spectrophotometric method GB/T 15555.11 Determination of fluoride in solid waste - Ion selective electrode method GB/T 15555.12 Determination of corrosion of solid wastes - Glass electrode method GB/T 28001 Occupational Health and Safety Management System Specification GBZ 1 industrial enterprise design hygiene standard GBZ 2.1 Occupational exposure limits for workplace hazards Part 1. Chemical hazards GBZ 2.2 Occupational exposure limits for workplace hazards Part 2. Physical factors DL/T 620 AC electrical equipment overvoltage protection and insulation with power industry standards DL/T 621 AC Electrical Equipment Grounding Power Industry Standard HJ 561 Technical Specifications for Performance Testing of Hazardous Waste (including Medical Waste) Incineration Disposal Facilities HJ/T 76 Technical requirements and test methods for continuous monitoring system for fixed source flue gas emissions (Trial) HJ/T 176 Technical Specifications for Centralized Incineration and Disposal of Hazardous Waste HJ/T 177 Technical Specifications for Construction of Centralized Incineration Disposal of Medical Waste JB/T 8471 bag type dust collector installation technical requirements and acceptance specifications machinery industry standard JB/T 8690 industrial fan noise limit Law of the People's Republic of China on Environmental Impact Assessment (Chairman's Decree [2002] No. 77) Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes (Chairman's Decree [2005] No. 31) Regulations on Environmental Protection Management of Construction Projects (Order of the State Council [1998] No. 253) Regulations on Quality Management of Construction Projects (Order of the State Council [2000] No. 279) Measures for the Administration of Hazardous Waste Business Licenses (State Council Order [2004] No. 408) "Design Regulations for Environmental Protection of Construction Projects" (Guo Huan Zi [87] No. 2) National Directory of Hazardous Wastes (Ministry of Environmental Protection, National Development and Reform Commission Order [2008] No. 1) Technical Requirements for Completion Acceptance Monitoring of Environmental Protection Facilities of Construction Projects (Huanfa [2000] No. 38) "Administrative Measures for Environmental Protection Acceptance of Completion of Construction Projects" (Huanfa [2004] No. 13) National Plan for the Construction of Hazardous Waste and Medical Waste Disposal Facilities (Huanfa [2004] No. 16) "Administrative Measures for Automatic Monitoring of Pollution Sources" (Huanfa [2005] No. 28) "Deep Provisions on the Design of Architectural Engineering Design Documents" (Building Quality [2008] No. 216) Interim Provisions on Occupational Safety Supervision of Production Construction Projects (Labor [1988] No. 48) Technical Requirements for Construction of Hazardous Waste Safety Landfill Disposal Project (Huanfa [2004] No. 75) Notice on Strengthening the Completion and Acceptance of the National Hazardous Waste and Medical Waste Disposal Facilities Construction Plan [2009] No. 22)