

ICS 13.030.40
CCS Z 13

HJ

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

HJ 2035-2013

**Technical guidelines for solid waste treatment and disposition
engineering
(English Translation)**

Issued on: January 1, 1970

Implemented on: January 1, 1970

Issued by: Ministry of Ecology and Environment

Table of Contents

Preface

- 1. Scope .1
- 2 Normative references .1
- 3 Terms and definitions
- 4 .3 general requirements
- 5 Plant (field) site selection and general layout
- 6 Solid waste collection, storage and transport .6
- 7 7 biological treatment of solid waste
- 8 Solid Waste heat treatment .9
- 9 Solid waste landfill, disposal
- 10 Labor safety and occupational health .23
- 11 Construction and acceptance
- 12 Operation and Maintenance

Foreword

To implement the "People's Republic of China Environmental Protection Law" and "People's Republic of China Solid Waste Environmental Pollution Prevention Law," Prevention Environmental pollution, protect the environment and human health, the development of this standard.

This standard general technical requirements for solid waste disposal engineering design, construction, inspection and operation and maintenance.

This standard is a guiding document for stakeholders in solid waste disposal with reference to use.

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 (Solid Waste Treatment and Utilization Committee), Beijing Central Tsinghua ring Habitat Engineering Design & Research Institute Co., Ltd., Beijing Science and Technology Co., Ltd. with the Oriental, the Netherlands Shanghai Environmental Protection Co., Tianjin Jianchang environmental protection Limited.

This standard MEP September 26, 2013 for approval.

This standard shall be December 1, 2013 implementation.

The standard explanation by the Ministry of Environmental Protection.

Solid waste disposal engineering and technical guidelines

1 Scope

This standard specifies the general technical requirements for solid waste disposal engineering design, construction, inspection and operation and maintenance.

This standard applies in addition to hazardous waste disposal and waste recycling solid waste disposal project.

This standard may post evaluation, design, construction, environmental inspection and built to run as the environmental impact of disposal of solid waste project Technical basis and management.

For the corresponding process specifications or technical specifications of the key sources of pollution of solid waste disposal project, the implementation of this standard shall be simultaneously Criteria and corresponding technical specifications.

2 Normative references

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

GB 5085 Identification standard for hazardous wastes GB 5086.1 ~ 2 solid waste leaching toxicity methods GB 8172 farm towns garbage control standards GB 15562.2 Environmental Graphics Flag solid waste storage (disposal) field GB 15577 Safety regulations for dust explosion GB 16889 landfill pollution control standards GB 18485 garbage burning pollution control standards GB 18599 general industrial solid waste storage and disposal site pollution control standards GB 50016 architectural design code for fire protection GB 50041 boiler room design specifications GB 50051 Chimney design specifications GB 50202 foundation engineering foundation construction quality acceptance Construction Quality Acceptance GB 50203 masonry structure specification GB 50204 Construction Quality Acceptance of Concrete Structure Engineering Steel Engineering Construction Quality Acceptance GB 50205 GB 50231 mechanical equipment installation construction and acceptance GB 50236 field equipment, industrial pipe welding engineering for construction GB 50254 ~ GB 50259 electric equipment installation engineering construction and acceptance GB 50275 fans, compressors, pumps, installation engineering construction and acceptance GB 50300 Construction Quality Acceptance of uniform standards GB/T 15555.1 ~ 12 solid waste leaching toxicity determination GB/T 24602 municipal wastewater treatment plant sludge disposal by incineration alone muddy GB Z 1

Design of Industrial Enterprises hygiene standards GB Z 2.1 Workplace Hazardous Occupational Exposure Limits - Part 1. Chemical hazardous agents GB Z 2.2 Workplace Hazardous Occupational Exposure Limits - Part 2. physical factors CJ/T 3059 MSW composting plant technical evaluation CJJ 17 municipal solid waste sanitary landfill Technical Specifications CJJ/T 52 MSW Technical specification for static aerobic composting HJ 564 Landfill Leachate Treatment Project Technical Specifications (Trial) HJ/T 284 for environmental protection product requirements baghouse with electromagnetic pulse valve HJ/T 324 for environmental protection product requirements baghouse with filter HJ/T 325 for environmental protection product requirements baghouse filter bag framework HJ/T 326 for environmental protection product requirements baghouse with a membrane filter media HJ/T 327 for environmental protection product requirements baghouse filter bag HJ/T 328 environmental protection product pulse jet bag filter class NY/T 1220 biogas technical specifications NY/T 1220.1 biogas technical specification - Part 1. Process Design NY/T 1220.2 biogas technical specification - Part 2. Design of gas Jianbiao 124-2009 solid waste sanitary landfill project construction standards Jianbiao 141-2010 waste composting project construction standards "Construction Project Environmental Protection Management Regulations" (State Council Decree No. 253) "Dangerous chemical safety regulations" (People's Republic of China State Council Decree No. 591) "Acceptance of completed construction projects management approach" (SEPA Order No. 13) "Construction project environmental protection facilities in the acceptance monitoring technical requirements" (SEPA [2000] No. 38) "National List of Hazardous Wastes" (People's Republic of China Ministry of Environmental Protection, the National Development and Reform Commission Order No. 1)

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 Solid waste solid waste

Generated in the production, life and other activities lose their original use value or loss of use value, but has not yet been discarded or abandoned Solid, semi-solid and placed in containers of gaseous materials, substances as well as legal and administrative regulations were included in solid waste management Products, substances. This standard does not include solid waste within the meaning of hazardous waste.

3.2 Biological treatment biological treatment

By aerobic or anaerobic microorganism, which makes degradable organic matter into stable products processing technology of solid waste.

3.3 Aerobic composting aerobic composting

In sufficient oxygen supply conditions, using solid waste aerobic microbial decomposition of organic matter in the process.

3.4 Anaerobic digestion anaerobic digestion

In the absence of oxygen or hypoxia, by the action of anaerobic microorganisms makes waste biodegradable organic matter into methane, carbon CFCs and stable substances biochemical processes.

3.5 Heat treatment thermal treatment

High-temperature decomposition of organic matter and deep oxidation and change its physical, chemical or biological characteristics and composition of the processing technology.

3.6 Incineration

A certain amount of excess air and organic waste is processed in the incinerator combustion oxidation reaction, the poisonous waste material Quality at a high temperature oxidation, pyrolysis, and the destruction of high temperature heat treatment technology.

3.7 Pyrolysis

Solid waste in anaerobic or anoxic conditions, a pyrolysis process gas, fuel oil and other substances.

3.8 Landfill

Geotechnical engineering theory and in accordance with standard solid waste landfill cover and make a stabilized final disposal method.

4 General requirements

4.1

Solid waste disposal should follow the reduction, recycling, sound principles, the generation of solid waste, transport, storage Storage, treatment and disposal of the entire process control should be implemented.

4.2

conditional region should build a solid waste disposal facilities, to improve economies of scale.