

ICS 13.030.40
CCS Z 70

HJ

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

HJ 2037-2013

**Technical specifications for centralized incineration disposal
engineering on PCBs waste
(English Translation)**

Issued on: January 1, 1970

Implemented on: January 1, 1970

Issued by: Ministry of Ecology and Environment

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Foreword

Technical specification for polychlorinated biphenyl waste incineration disposal engineering

1 Scope of application

This standard specifies the technical requirements for the design, construction, acceptance and operation management of polychlorinated biphenyl waste incineration disposal projects.

begging.

This standard applies to the construction and operation of waste incineration disposal projects containing polychlorinated biphenyls.

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 151 shell and tube heat exchanger GB 5085.1-7 Hazardous Waste Identification Standard GB 7190 glass fiber reinforced plastic cooling tower 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 13015 Contains PCB pollution control standards GB 15562.2 Environmental Protection Graphic Mark - Solid Waste Storage (Disposal) Site GB 18452 crushing equipment safety requirements GB 18484 Hazardous Waste Incineration Pollution Control Standard GB 18597 Hazardous Waste Storage Pollution Control Standard GB/T 28001 Occupational Health and Safety Management System Requirements GB 50019 Heating, Ventilation and Air Conditioning Design Code GB 50028 town gas design code GB 50034 Architectural Lighting Design Code GB 50057 building lightning protection specification GB 50062 Specification for relay protection and automatic devices for electrical installations GB 50156 Refueling and gas station design and construction specification GB 50431 belt conveyor engineering design specification GB 502221 Steel Structure Engineering Quality Assessment Standard GB J14 Outdoor Drainage Design Code GB J16 Building Design Fire Code GB J22 factory mine road design specification GB J87 industrial enterprise noise control design specification GB J140 building fire extinguisher configuration design specification GB/T.19923 Urban sewage recycling industrial water quality 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 HJ/T 20 Technical Specifications for Sampling and Sample Preparation of Industrial Solid Waste HJ/T 176 Technical Specifications for Construction of Hazardous Waste Centralized Incineration

Disposal Project HJ/T 324 Environmental Protection Products Technical Requirements Bag Filters HJ/T 324 environmental protection product technical requirements bag filter bag HJ/T 365 Hazardous Waste (including Medical Waste) Incineration and Disposal Facilities Dioxin Emission Monitoring Technical Specifications HJ 561-2010 Technical Specifications for Performance Testing of Hazardous Waste (including Medical Waste) Incineration Disposal Facilities HJ 2020-2012 General technical specifications for bag dust removal engineering HG/T 20566 rotary kiln design regulations Technical requirements for JB/T 1388 compound pendulum jaw crusher JB/T 8690 industrial fan noise limit Measures for the Management of Pollution Sources Monitoring (Huanfa [1999] No. 246) Measures for the Administration of Hazardous Waste Transfer Joint Orders (Order No. 5 of the State Environmental Protection Administration) Guidelines for Preparing Emergency Plans for Hazardous Waste Business Units (State Environmental Protection Administration Announcement [2007] No. 48)

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1 Polychlorinated biphenyls for waste

Refers to polychlorinated biphenyls (PCBs) containing wastes listed in the National Hazardous Wastes List.

3.2 Incineration

Refers to the process of burning and burning PCBs waste at high temperature to decompose and harm.

3.3 Incinerator

Refers to the main unit that incinerates waste containing PCBs, which is a pyrolysis gasification incinerator consisting of a rotary kiln and a secondary combustion chamber.

3.4 Incineration amount

Refers to the weight of waste containing PCBs incinerators per unit time.

3.5 Incineration residues

Refers to the combustion residue discharged after the burning of PCBs-containing waste, the fly ash generated by the exhaust gas purification device, and other solid and semi-solid State substance.

3.6 Deconstruction removal rate (DRE)

Refers to the difference between the quality of the PCBs in the incinerated waste and the quality of the PCBs remaining in the emitted flue gas, accounting for the incineration the percentage of PCBs quality. The expression for DRE is as follows.

$DRE = (W_i - W_o) / W_i \times 100\%$ (1) in the formula.

W_i - is the mass of PCBs burned in unit time, kg/h;

W_o - is the mass of PCBs in the flue gas discharged per unit time, kg/h.

3.7 Thermal burn rate loss of ignition

Refers to the percentage of the mass of the incineration residue that has been reduced by the burning of the incineration residue. Its calculation formula is as follows.

$P = (A - B) / A \times 100\%$ (2)

In the formula.

P -thermal burning rate, %;

A -quality of the original incineration residue after drying at room temperature, g;

B -Incineration residue is heated to 600 ° C (± 25 ° C) for 3 h, then cooled to room temperature, g.

3.8 Smoke retention time

Refers to the residence time between the flue gas generated by combustion from the last burner exit to the flue cooling spray port.

[GB 18484]

3.9 Incinerator temperature incinerator temperature

Refers to the temperature at the exit center of the incinerator combustion chamber. [GB 18484]

3.10 Combustion efficiency (CE)

Refers to the percentage of the concentration of carbon dioxide in the exhaust gas of the flue and the concentration of carbon dioxide and carbon monoxide, expressed as CE.

Its calculation formula is.

$CE = [CO_2] / ([CO_2] + [CO]) \times 100\%$ (3) in the formula.

$[CO_2]$ and $[CO]$ - are the concentrations of CO_2 and CO in the exhaust after combustion,