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

HJ 561-2010

**Technical specification of performance testing for facilities of
hazardous waste (including medical waste) incineration**

危险废物(含医疗废物)焚烧处置设施性能测试技术规范
(English Translation)

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Table of Contents

Preface

1. Scope

2 Normative references

3 Terms and Definitions .1

4 Performance Test content

5 Performance testing program

6 Performance test technical requirements

Foreword

For the implementation of the "People's Republic of China Environmental Protection Law", "People's Republic of China Solid Waste Pollution Prevention Law" and other laws Regulation, with the implementation of GB 18484, regulate conduct performance tests incineration facilities, the development of this standard.

This standard specifies the test content of hazardous waste (including medical waste) incineration facilities involved in the performance tests, procedures and technology to begging.

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

Drafting of this standard. Shenyang Academy of Environmental Sciences, Institute of High Energy Physics, the Department of Environmental Protection for Cooperation Outside the center, the State Environmental Protection Engineering Technology Center hazardous waste disposal.

This standard MEP February 22, 2010 for approval.

This standard since June 1, 2010 came into effect.

The standard explanation by the Ministry of Environmental Protection.

Hazardous waste incineration facilities Performance Test Specification (including medical waste)

1 Scope

This standard specifies the test content of hazardous waste (including medical waste) incineration facilities involved in the performance tests, procedures and technical

requirements.

This standard applies to hazardous waste (including medical waste) performance test incineration facilities.

This standard does not apply to cement kilns co-disposal of hazardous waste performance testing facilities.

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 5085.3 identification of hazardous waste leaching toxic identification standard GB 18484 Hazardous Waste Incineration Pollution Control Standard Analysis Method GB/T 212 coal Heat GB/T 213 Determination of coal GB/T 384 Petroleum products - Determination of calorific value GB/T 11133 Liquid petroleum products - Determination of water (Karl Fischer method) GB/T 16157 Stationary source emission-Determination of particulates and gaseous pollutants sampling methods GB/T 17040 Petroleum and petroleum products Determination of sulfur content - Energy Dispersive X-ray Fluorescence Spectrometry HJ/T 298 Identification of Hazardous Waste Technical Specifications HJ/T 365 hazardous waste (including medical waste) incineration facilities dioxin emissions monitoring technical specifications

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 Hazardous Waste

Means included in the national list of hazardous waste or hazardous waste determination based on identification of standards and methods prescribed by the State having hazardous characteristics Waste.

3.2 Medical Waste

It refers to the medical and health institutions in the medical, prevention, health care and other related activities have generated directly or indirectly infectivity, toxicity to and other hazardous wastes.

3.3 Incineration Disposal Facilities

Means dedicated to the incineration of hazardous waste (including medical waste) of complete sets of equipment (including exhaust purification facilities).

3.4 Performance Test

It refers to the testing and evaluation of hazardous waste incineration facility performance behavior.

3.5 Hot burning rate reduction

It means the incineration residues by burning the reduced quality of the original mass percentage of incineration residues. It is calculated as follows.

100% A BP

Where. P-- rate of heat loss on ignition,%;

After drying A-- original mass incineration residues at room temperature, g;

After cooling B-- incineration residues by 600 °C (± 25 °C) 3 h burning quality to room temperature, g.

3.6 Gas residence time

It refers to the smoke generated by the combustion or secondary combustion chamber between the outlet from the last high-temperature combustion zone of the combustion air injection port or outlet to the burner the residence time.

3.7 Temperature incineration

It refers to a temperature incinerator chamber outlet center.

3.8 Combustion efficiency

It refers to the concentration of carbon dioxide and carbon monoxide and carbon dioxide concentrations and mass percentage in the flue gas. Table using the following formula it shows.

(CO) CE 100%

(CO) (CO)

$\rho_{CO_2} \rho_{CO} = x$

Where. CE-- combustion efficiency,%;

ρ_{CO_2} and ρ_{CO} - were burned exhaust gas mass concentration of CO₂ and CO, mg/m³.

3.9 DRE

Refers to an organic substance by incineration percentage reduction. By the following formula.

$DRE = 100\% - \frac{W_0 - W_i}{W_0} \times 100\%$

Where. DRE-- DRE,%;

Weight, g;

Weight, g.

3.10

Incineration facility performance test content, in accordance with the requirements and performance test burning test configuration (including medical waste) Yakimono

4 Content, performance test

Hazardous waste (including waste) incineration facilities should use standard test waste incinerator design temperature and design feed rate conditions DRE disposal facility may carry out performance tests.

Indicators, performance indicators, flue gas emissions targets, Including standard calorific value, mainly organic hazardous constituent (Principal Organic and Hazardous Components, Acronym Room rate reduction burning thermal incineration residues, heavy metals 18484 the flue gas pollutant emission targets stipulated.

Parameter; II group parameters Feed rate PO Incineration system comprising at least two combustion chamber exit temperature of the flue gas prior to quench oxygen content flue gas before the flue gas stream quench the amount, Inlet gas temperature, caustic feed rate, the activated carbon Injected Wi-- be incinerated in an organic substance W0-- flue gas emissions with Wi corresponding organic substances Standard Test waste Defined as the completion of hazardous waste material.

4.1 Medical

Under performance testing.

4.2 Medical waste incinerated

Performance Test 4.3 The incineration facility includes four main indicators. waste characteristics Equipment operating parameters.