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**Technical specifications for bag filters of municipal solid waste
incineration
(English Translation)**

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Foreword

To implement the Environmental Protection Law of the People's Republic of China, the Law of the People's Republic of China on Prevention and Control of Atmospheric Pollution, and Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes and the Standards for Pollution Control of Domestic Waste Incineration, Specification Design, construction, operation and maintenance management of bag dust removal system for domestic waste incinerator, prevention and control of domestic waste incineration this standard is formulated for smoke pollution, environmental protection and human health.

This standard specifies the design, construction, operation, management and other technologies of the baghouse dust removal system for domestic waste incinerators.

Claim.

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 is mainly drafted by. Sinosteel Tiancheng Environmental Protection Technology Co., Ltd.

This standard was approved by the Ministry of Environmental Protection on March 19, 2012.

This standard has been implemented since June 1, 2012.

This standard is explained by the Ministry of Environmental Protection.

Technical specification for garbage incineration bag type dust removal engineering

1 Scope of application

This standard specifies the design, construction, commissioning, acceptance and acceptance of the flue gas bag type dust removal system for domestic waste incinerators.

Technical requirements for operation and maintenance.

This standard is applicable to the dust bag type dust removal project of domestic waste incinerator, which can be used as the environmental impact assessment of such projects.

Price, feasibility study, design, construction, installation engineering acceptance, environmental protection acceptance and operation management, etc.

Technical basis. Other solid waste incinerator flue gas bag type dust removal works can be implemented.

2 Normative references

The contents of this standard refer to the terms in the following documents. Valid versions of undated references Applicable to this standard.

GB 150 steel pressure vessel GB 2893 security color GB 2894 safety signs and guidelines for their use GB 4053 Fixed Steel Ladder and Platform Safety Requirements GB 4064 Safety Design Guidelines for Electrical Equipment GB 5083 General safety and hygiene design of production equipment GB 8958 Safety Regulations for Hazardous Oxygen Operation General rules for safety and health requirements of GB 12801 production process GB 18485 Domestic garbage incineration pollution control standard GB 50029

compressed air station design specification GB 50034 Architectural Lighting Design Standard GB 50052 design specification for power distribution system GB 50054 Low Voltage Distribution Design Specification GB 50057 lightning protection design code for buildings GB 50217 Power Engineering Cable Design Specification 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 J 16 Building Design Fire Code GBZ 1 industrial enterprise design hygiene standard GBZ 2 Industrial site harmful factors occupational exposure limit GB/T 4200 high temperature operation classification Technical requirements for GB/T 6719 bag filter GB/T 16157 Determination of particulate matter in fixed pollution source exhaust gas and sampling method of gaseous pollutants HJ/T 284 environmental protection product technical requirements electromagnetic pulse valve for bag filter HJ/T 324 Environmental Protection Products Technical Requirements Bag Filters HJ/T 325 environmental protection product technical requirements bag filter bag frame HJ/T 327 environmental protection product technical requirements bag filter bag JB/T 8471 bag filter installation technical requirements and acceptance specifications Regulations on Environmental Protection Management of Construction Projects (Order No. 253 of the State Council [1998]) Measures for the Administration of Environmental Protection Acceptance for Completion of Construction Projects (formerly State Environmental Protection Administration [2001] Order No. 13)

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1 Pre-coating

Before the bag filter is put into operation, a certain amount of alkaline dust such as slaked lime powder is preset on the surface of the filter bag.

3.2 Fluorescent Leak Detection

Refers to the process of using the phosphor and the violet light to detect the leak point of the bag filter.

3.3 Deacidification

It refers to the removal of acid gases such as hydrogen chloride, hydrogen fluoride and sulfur oxides in the flue gas.

4 Contaminants and pollution loads

4.1

The main function of the bag dust removal system is to capture particulate matter in the flue gas. The design of the dust removal project should be mastered the smoke inlet parameters and types, quantities and composition of the pollutants, including. the amount of smoke (working conditions and standard conditions), Flue gas pressure and fluctuation range, flue gas temperature and fluctuation range (highest temperature of flue gas, minimum temperature of flue gas and normal Operating temperature), acid dew point temperature, moisture content, flue gas dust concentration, and hydrogen chloride, hydrogen fluoride, sulfur oxidation the concentration of matter, nitrogen oxides, oxygen, and the like. The inlet flue gas parameters based on the design of the precipitator are detailed in Appendix A.

4.2

The pollutant load of incineration flue gas can be determined by process calculation, testing or analogy.

4.3

Before the flue gas enters the dust collector, it should be deacidified first. The acid gas concentration after deacidification should meet the requirements of GB 18485.

Requirements.

4.4

Dust removal engineering design should be based on the removal process of other pollutant components in the flue gas of the incinerator.

4.5

The calculation of the amount of flue gas treated by the dust collector should consider temperature regulation, humidification, deacidification, activated carbon and other adsorbent sprays.

Changes in the amount of smoke caused by the influx should also take into account changes in the amount of smoke caused by the incinerator's overload operation.

4.6

Dust collector treatment of flue gas volume with working condition flow meter, if it is the flow under standard condition, it should be converted according to formula (1) for working condition flow.

1 PT

$TPQQ = .(1)$

In the formula.

Q0--the flow rate of flue gas under standard conditions, Nm³/h;