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

GB 19054-2003

Replacing GB/T 19054-2003

General technical conditions for fuel oil cremator

燃油式火化机通用技术条件

(English Translation)

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Table of Contents

Preface
1 Scope
2 Normative References
3 Terms and Definitions
4 Technical Requirements
4.1 Environmental Conditions
4.2 Usage Performance
4.3 Safety Requirements
4.4 Environmental Protection Requirements
4.5 Appearance Requirements
4.6 Material Requirements
4.7 Installation process requirements
5 Test Methods
5.1 Environmental Conditions
5.2 Usage Performance
5.3 Safety Requirements
5.4 Environmental protection requirements
5.5 Appearance Requirements
5.6 Installation process requirements
6 Inspection Rules
6.1 Inspection Classification
6.2 Acceptance Inspection
6.3 Type Testing
7 Paint, packaging, marking, and acceptance documents

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document replaces GB/T 19054-2003 "General Technical Conditions for Oil-Fired Cremators". Compared with GB/T 19054-2003, the following changes are made.

Aside from structural adjustments and editorial changes, the main technical changes are as follows.

---The definition of the term "Taiwanese cremator" has been changed (see 3.12, 2003 edition);

---Two new terms and definitions have been added. "cremation time" and "shutdown insulation performance" (see 3.13 and 3.14);

---The technical specifications and requirements for cremation time, fuel consumption, service life, refractory temperature of brick structures, and refractory surface have been revised (see [link]).

4.2.1~4.2.6 (4.2.1~4.2.6 in the 2003 edition);

---Added requirements for the height of the cremator operating door (see 4.2.8);

---The provision that "the gauge of the ground rails for transporting corpses is set at 1850mm" has been deleted (see section 4.2.9 of the 2003 edition);

---Technical requirements for the ash removal door and observation port of the cremator have been revised (see 4.2.12, 4.2.13, and 4.2.13 in the 2003 edition);

---Added requirements for flue gas emission pipelines within the cremation chamber (see 4.2.14);

---The requirement to install inspection ports on the exhaust system duct has been removed (see 4.2.15 of the 2003 edition);

---Added technical requirements for the operation of the body loading system, the raising and lowering of the flue damper, and burner ignition (see 4.2.17, 4.2.18, and 4.2.19);

---Added technical requirements for the thermal insulation performance of the cremator during shutdown (see 4.2.20);

---The technical requirements for the control system have been increased (see 4.3.7);

---The technical requirements for the main combustion chamber operating pressure have been revised (see 4.4.3, 2003 version 4.4.3);

---Technical requirements for flue gas waste heat recovery devices have been added (see 4.4.4);

---The appearance requirements have been changed (see 4.5, 2003 version 4.5);

---The installation process requirements have been changed (see 4.7, 4.7 and 4.8 in the 2003 edition);

---A method for detecting cremation time has been added (see 5.2.1);

---A method for testing the fire resistance temperature of brick structures in the main

combustion chamber and secondary combustion chamber that are in direct contact with the flame has been added (see 5.2.5);

---Added a method for inspecting the refractory surface of the furnace body after cremating 300 bodies (see 5.2.6);

---Added detection methods for the main combustion chamber length, width and height of the main combustion chamber and the mortuary entrance (see 5.2.8);

---Added operational reliability testing methods for the lifting and lowering of the mortuary vehicle, furnace door, and flue damper (see 5.2.16~5.2.18);

---Added a method for detecting burner ignition success rate (see 5.2.19);

---Added a method for testing the insulation performance during boiler shutdown (see 5.2.20);

---The content of the acceptance inspection has been changed (see 6.2, 5.2~5.6 of the 2003 edition).

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the Ministry of Civil Affairs of the People's Republic of China.

This document is under the jurisdiction of the National Technical Committee on Standardization of Funeral Services (SAC/TC354).

1 Scope

This document specifies the technical requirements and inspection rules for fuel-fired crematoriums, and describes the relevant test methods.

This document applies to fuel-fired crematoriums.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 2888 Noise Measurement Method for Fans and Roots Blowers GB/T 7251.1
Low-voltage switchgear and controlgear assemblies - Part 1: General principles GB/T
10233-2016 Basic Test Methods for Low-Voltage Switchgear and Electrical Control

Equipment GB/T 10325 Sampling Inspection Rules for Acceptance of Shaped Refractory Products GB/T 10326 Inspection methods for dimensions, appearance and cross-section of shaped refractory products GB 13801 Air Pollutant Emission Standard for Crematoriums GB/T 16618 General Technical Specifications for Thermal Insulation of Industrial Furnaces and Kilns GB/T 24343 Test Specification for Insulation Resistance of Electrical Equipment for Industrial Machinery GB 50211 Code for Construction and Acceptance of Industrial Furnace Masonry GB 50254 Code for Construction and Acceptance of Low-Voltage Electrical Equipment in Electrical Installations GB 50309 Standard for Acceptance of Quality of Industrial Furnace Masonry Engineering GB 50575 Construction and Acceptance Specification for Wiring Engineering of 1kV and Below JC/T 532 General Technical Requirements for Welded Components of Building Materials and Machinery Steel NB/T 10939 Rules for Acceptance Inspection of Materials Used in Boilers NB/T 47055 General Technical Requirements for Boiler Painting and Packaging

3 Terms and Definitions

The following terms and definitions apply to this document.

fueloil cremator

It is a specialized device for cremating remains, which uses oil as fuel and consists of a furnace body, a blower-oil system, an electrical control system, an exhaust system, and a body loading system.

furnace body

The main body of the cremator consists of the main combustion chamber, the re-combustion chamber, the brick structure, and the external structure.

The space inside the furnace used for the direct cremation of remains.