

Guideline No.K-04 (201610)



K-04

MARINE INCINERATOR

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Foreword

CCS Product Inspection and Testing Guideline (hereinafter referred to as this Guideline) contains the technical requirements, inspection and testing criteria related to classification and statutory survey of marine products to be applied for CCS approval/inspection.

This Guideline frees the users to adopt other test methods and requirements which are equivalent to or are stricter than this Guideline.

This Guideline is published and updated by CCS, and is released at <http://www.ccs.org.cn>. Your comments or suggestions are welcomed and may be sent to our email addressed mp@ccs.org.cn.

Historical versions and release date: K-04 (201510) October 20, 2016

Main changes:

The “4 material and components” is amended to coordinate with the rules.

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1 Application

1.1 This Guideline applies to type approval and inspection of incinerators with capacities up to 4,000 kW per unit..

1.2 This Guideline does not apply to systems on special incinerator ships, e.g. for burning industrial wastes such as chemicals, manufacturing residues, etc.

2 Basis for approval and inspection

2.1 The following standards are the bases for the type approval and inspection of incinerators:

- (1) IMO MARPOL 73/78 Annex VI — *Regulations for the Prevention of Air Pollution from Ships*
- (2) RESOLUTION MEPC.244 (66) — *2014 Standard Specifications of Marine Incinerators*

3 Plans and documents

3.1 The following plans and documents are to be submitted to CCS for approval:

(1) Main product performance specification table, including at least the following:

① Maximum capacity: (kW or kcal/h)

Burning capacity of solid waste: (kg/h) (If any)

Burning capacity of sludge oil (l/h or kg/h) (If any)

② Emission standards:

O₂ Average in combustion chamber/zone;

CO Average in flue gas;

Soot number average;

Combustion chamber flue gas outlet temperature average;

Amount of unburned components in ashes;

(2) Main plans include:

① General assembly plan;

- ② Plans of main parts/components;
- ③ System schematic diagram/ schematic diagram of control box;
- ④ Safety alarm and corresponding adjustment value;

(3) Factory test/inspection program of product;

(4) Type test program (if applicable).

3.2 The following plans and documents are to be submitted to CCS for information:

- (1) Production Instructions and manual operation instructions;
- (2) Nameplate.

4 Materials and components

Materials and components of products are to be controlled according to relevant requirements of the CCS Rules currently in effect.

5 Design and technical requirements

5.1 Design, manufacture, performance, operation and tests of incinerators are to meet the requirements of IMO MEPC.244 (66) — 2014 *Standard Specifications of Marine Incinerators*.

6 Type test

6.1 Selection of typical samples

Type test is to be conducted to the first product of each type.

6.2 Type test items as specified in 6.2.

Type test items

Table 6.2

No.	Test item	Requirement
1.	Structural and visual inspection	Meeting the approved plans; conforming to the approved type
2.	Operation test	Article 7.2 of MEPC.244 (66)
3.	Test of safety protection device	Article 7.3 of MEPC.244 (66)
4.	Sludge oil burning	Articles of 7.1, 4.1, 4.2 and 4.3 of MEPC.244 (66) and Articles A1.3, A1.4 and

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	test	A1.5 of Annex A
5.	Solid waste burning test	Articles of 7.1, 4.1, 4.2 and 4.3 of MEPC.244 (66) and Articles A1.3, A1.4 and A1.5 of Annex A

7 Unit/batch inspection

7.1 Unit/batch inspection items after approval are specified in Table 7.1.

Unit/batch inspection items after approval

Table 7.1

No.	Test item	Requirement
1	Structural and visual inspection	Meeting the approved plans; conforming to the approved type
2	Inspection of accessories and fittings	Meeting the approved plans; conforming to the approved type
3	Operation test	Article 7.2 of MEPC.244 (66)
4	Test of safety protection device	Article 7.3 of MEPC.244 (66)