



Standard Specification for Shipboard Incinerators¹

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1. Scope

1.1 This specification covers the design, manufacture, performance, operation, functioning, and testing of incinerators intended to incinerate garbage and other shipboard wastes generated during the ship's normal service (that is, maintenance, operational, domestic, and cargo-associated wastes).

1.2 This specification is a companion document to Guide F1322.

1.3 This specification applies to those incinerator plants with capacities up to 4000 kW per unit.

1.4 Additional information is given in **Appendix X1 – Appendix X8**.

1.5 This specification does not apply to systems on special incinerator ships, for example, for burning industrial wastes such as chemicals, manufacturing residues, and so forth.

1.6 This specification does not address the electrical supply to the unit nor the foundation connections and stack connections.

1.7 *It is possible that this standard will involve hazardous materials, operations, and equipment. This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use. If an incinerator is to be operated in coastal regions, the strictest governing regulations for those countries in which the incinerator would potentially operate would form the requirement basis.*

2. Referenced Documents

2.1 ASTM Standards:²

¹ This specification is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.06 on Marine Environmental Protection.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

F1166 Practice for Human Engineering Design for Marine Systems, Equipment, and Facilities

F1322 Guide for Selection of Shipboard Incinerators

2.2 ASME Standard:³

B31.1 Power Piping

B31.3 Process Piping

2.3 ASME Boiler and Pressure Vessel Code:⁴

Section I Power Boilers

Section IX Welding and Brazing Qualifications

2.4 IMO Conventions:⁵

SOLAS 74 International Convention for the Safety of Life at Sea (SOLAS), 1974, as amended

MARPOL 74 International Convention for the Prevention of Pollution from Ships (MARPOL), 1973, as amended

2.5 Underwriter's Laboratory Standards:⁶

UL 506 Standard for Specialty Transformers

UL 814 Standard for Gas-Tube Signs and Ignition Cables

2.6 Other Documents:⁷

NFPA No. 70 National Electrical Code (NEC)

NOTE 1—Incinerators designed and manufactured in accordance with alternative standards must show compliance with this specification.

3. Terminology

3.1 Definitions:

3.1.1 *administration, n*—means the Government of the State whose flag the ship is entitled to fly.

3.1.2 *cargo residues, n*—means the remnants of any cargo which are not covered by Annexes to MARPOL and which remain on the deck or in holds following loading or unloading, including loading and unloading excess or spillage, whether in wet or dry condition or entrained in wash water but does not

³ Available from American Society of Mechanical Engineers (ASME), ASME International Headquarters, Two Park Ave., New York, NY 10016-5990, <http://www.asme.org>.

⁴ Available from American Society of Mechanical Engineers (ASME), ASME International Headquarters, Three Park Ave., New York, NY 10016-5990, <http://www.asme.org>.

⁵ Available from the International Maritime Organization, 4 Albert Embankment, London SE1 7SR, UK.

⁶ Available from Underwriters Laboratories (UL), 333 Pfingsten Rd., Northbrook, IL 60062-2096, <http://www.ul.com>.

⁷ Available from National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, MA 02169-7471, <http://www.nfpa.org>.