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Ships and marine technology — Marine environment protection — Management and handling of shipboard garbage

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO TC 8, *Ships and marine technology*, Subcommittee SC 2, *Marine environment protection*.

This second edition cancels and replaces the first edition (ISO 21070:2011), which has been technically revised.

Introduction

The management of shipboard garbage is extensively controlled by MARPOL, Annex V. Additionally, States party to the MARPOL Convention have undertaken regional and national implementing legislation to regulate and enforce provisions for handling ships' waste and for providing adequate reception facilities at ports and terminals subject to Parties' flag state and port state control authorities.

This document has been prepared to reflect the amendments of MARPOL, Annex V of January 2013.

This document provides for the minimization, management and segregation of a ship's garbage, so that it can be managed on-board and offloaded efficiently to the relevant reception facilities onshore.

To obtain the most efficient management of waste and to reduce the time and resource burden in segregating and handling waste on the ship and in the ports, the concept of waste minimization has been integrated into this document by incorporating the following basic principle: **Prevention before recycling before energy recovery before disposal.**

This document concentrates on

— the prevention/elimination/minimization of waste prior to sailing,

— the minimization of waste at the source on the ship,

— the garbage collection at the source,

— the waste segregation on the ship into defined categories that are recognized globally and fit into the many different waste categorization systems around the world,

— the waste minimization once segregated,

— the waste storage on board ship, and

— the health and safety concerns surrounding the handling, storage and offloading of waste.

Both ship owners and coastal states are more aware of the importance of well-organized and managed waste collection and its benefits, especially with respect to health and safety on board ships, the reduction of pollution and the potential cost benefits for ship owners and national governments. This document provides a fixed standard for segregated garbage that any harbour facility worldwide may expect when a ship arrives in port. However, it cannot work alone. ISO 16304 works in conjunction with this document. This document does not consider the available various (and numerous) shore-side waste handling systems that exist, but may encourage the provision of recycling facilities for shipboard waste in ports.

Ships and marine technology — Marine environment protection — Management and handling of shipboard garbage

1 Scope

This document specifies procedures for the shipboard management of garbage, including handling, collection, separation, marking, treatment, and storage. It also describes the ship-to-shore interface and the delivery of garbage from the ship to the port reception facility. MARPOL, Annex V sets the minimum standard for garbage management that apply to ships. This document applies to the management and handling of shipboard garbage during the period the garbage will be on board. The definition of garbage in this document is as defined in MARPOL, Annex V.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

International Convention for the Prevention of Pollution from Ships, (MARPOL) Annex I to VI, as amended, IMO, consolidated edition 2011

Guidelines for the Implementation of MARPOL Annex V, IMO, 2012

MEPC.1/ Circ. 834, *Consolidated guidance for port reception facilities providers and users, IMO,15 April 2014*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at http://www.electropedia.org/

— ISO Online browsing platform: available at http://www.iso.org/obp

3.1 General terms

3.1.1
discharge
any release, however caused, from a ship including any escape, disposal, spilling, leaking, pumping, emitting or emptying

[SOURCE: MARPOL Article 2 (3)(a)]

3.1.2
harmful substance
substance which, if introduced into the sea, is liable to create hazards to human health; harm living resources and marine life; damage amenities or interfere with other legitimate uses of the sea, and; includes any substance subject to control by the present MARPOL Convention

[SOURCE: MARPOL Article 2 (2)]