



PORTS and MARITIME AFFAIRS

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Directive No. MARPOL/01

IMPLEMENTATION OF MARPOL ANNEX V FOR PREVENTION OF POLLUTION BY GARBAGE FROM SHIPS

Issued under the enabling power of the Ministerial Resolution 20/2016

Issue Date: 27 December 2016

1 Introduction

- (1) The International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 (MARPOL 73/78) relating thereto requires each party State to implement the provisions of the revised MARPOL Annex V (regulations for the prevention of pollution by garbage from ships), taking into account the 2012 Guidelines for the Implementation of MARPOL Annex V.
- (2) The Ports and Maritime Affairs (PMA) is fully aware of the importance to enhance and control the prevention of pollution by garbage from ships through implementing the provisions of the revised MARPOL Annex V pursuant to the right and obligation stipulated in the National legislations such as:
 - The PMA Directive no. 7/2016 on the implementation of the MARPOL 1973;
 - Article 25 (Port state control) of legislative decree law no.14/1978 : Law for Registration of Ships and Determination of Safety Conditions thereof;
 - Regulations 15 of ministerial resolution no. 6/2010: Implementing Regulations of law 61/2006; and
 - Regulation 1 of ministerial resolution 20/2016: Implementation of Conventions related to marine navigation.
- (3) This directive provides guidance to implement the revised MARPOL Annex V, it should be read in conjunction with the PMA Directive no. PSC/01 and the other documents listed in paragraph 12 under titles Further Reading.



2 Definitions

For the purpose of this Directive the following definitions apply:

- (1) **Animal carcasses** means the bodies of any animals that are carried on board as cargo and that die or are euthanized during the voyage.
- (2) **Cargo residues** means the remnants of any cargo which are not covered by other Annexes to the present Convention 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 include cargo dust remaining on the deck after sweeping or dust on the external surfaces of the ship.
- (3) **Cooking oil** means any type of edible oil or animal fat used or intended to be used for the preparation or cooking of food, but does not include the food itself that is prepared using these oils.
- (4) **MARPOL Annex V** mean the revised MARPOL Annex V " Regulations for the Prevention of Pollution by Garbage from Ships" adopted on 15 July 2011 by Resolution MEPC.201(62).
- (5) **Domestic wastes** means all types of wastes not covered by other Annexes that are generated in the accommodation spaces on board the ship. Domestic wastes does not include grey water.
- (6) **En route** means that the ship is underway at sea on a course or courses, including deviation from the shortest direct route, which as far as practicable for navigational purposes, will cause any discharge to be spread over as great an area of the sea as is reasonable and practicable.
- (7) **Fishing gear** means any physical device or part thereof or combination of items that may be placed on or in the water or on the sea-bed with the intended purpose of capturing, or controlling for subsequent capture or harvesting, marine or fresh water organisms.
- (8) **Fixed or floating platforms** means fixed or floating structures located at sea which are engaged in the exploration, exploitation or associated offshore processing of sea-bed mineral resources.



- (9) **Food wastes** means any spoiled or unspoiled food substances and includes fruits, vegetables, dairy products, poultry, meat products and food scraps generated aboard ship.
- (10) **Garbage** means all kinds of food wastes, domestic wastes and operational wastes, all plastics, cargo residues, cooking oil, fishing gear, and animal carcasses generated during the normal operation of the ship and liable to be disposed of continuously or periodically except those substances which are defined or listed in other Annexes to the present Convention. Garbage does not include fresh fish and parts thereof generated as a result of fishing activities undertaken during the voyage, or as a result of aquaculture activities which involve the transport of fish including shellfish for placement in the aquaculture facility and the transport of harvested fish including shellfish from such facilities to shore for processing.
- (11) **IMO** means the International Maritime Organization.
- (12) **Incinerator ashes** means ash and clinkers resulting from shipboard incinerators used for the incineration of garbage.
- (13) **Nearest land**, the term "from the nearest land" means from the baseline from which the territorial sea of the territory in question is established in accordance with international law, except that, for the purposes of the present Annex, "from the nearest land" off the north-eastern coast of Australia shall mean from a line drawn from a point on the coast of Australia
- (14) **Operational wastes** means all solid wastes (including slurries) not covered by other Annexes that are collected on board during normal maintenance or operations of a ship, or used for cargo stowage and handling. Operational wastes also includes cleaning agents and additives contained in cargo hold and external wash water. Operational wastes does not include grey water, bilge water, or other similar discharges essential to the operation of a ship, taking into account the guidelines developed by the Organization.
- (15) **Plastic** means a solid material which contains as an essential ingredient one or more high molecular mass polymers and which is formed (shaped) during either manufacture of the polymer or the fabrication into a finished product by heat and/or pressure. Plastics have material properties ranging from hard and



brittle to soft and elastic. For the purposes of annex V , "all plastics" means all garbage that consists of or includes plastic in any form, including synthetic ropes, synthetic fishing nets, plastic garbage bags and incinerator ashes from plastic products.

- (16) **Special area** means a sea area where for recognized technical reasons in relation to its oceanographic and ecological condition and to the particular character of its traffic the adoption of special mandatory methods for the prevention of sea pollution by garbage is required. For the purposes of this directive the special areas are the Mediterranean Sea area, the Baltic Sea area, the Black Sea area, the Red Sea area, the Gulfs area, the North Sea area, the Antarctic area and the Wider Caribbean Region. The updated list of special area under MARPOL is available at the IMO webpage (<http://www.imo.org>), click on (our work, marine environment, special area under MARPOL).

3 Application

- (1) Unless expressly provided otherwise, this directive applies to:
- all Bahraini registered ships wherever it may be, and
 - a fixed or floating platform in the territorial waters of the kingdom of Bahrain
- (2) The Paragraph related to inspection applies to a foreign ship while she is in the territorial waters of the kingdom of Bahrain

4 New Categories of Garbage

According to revised MARPOL Annex V shipboard generated garbage is to be grouped into the following categories:

- Plastics:** garbage that consists of or includes plastic in any form, including synthetic ropes, synthetic fishing nets, plastic garbage bags and incinerator ashes from plastic products. Garbage under this category is prohibited to be discharged at sea.
- Food Wastes:** spoiled or unspoiled food substances, food wastes may be discharged at sea under specific circumstances/requirements



- (3) **Domestic Wastes:** garbage generated mainly in the accommodation spaces on board the ship (e.g. drinking bottles, papers, cardboard etc). Garbage under this category is prohibited to be discharged at sea.
- (4) **Cooking Oil:** edible oil or animal fat used for the preparation or cooking of food. Garbage under this category is prohibited to be discharged at sea.
- (5) **Incinerator Ashes:** ash and clinkers resulting from shipboard incinerators used for the incineration of garbage. Garbage under this category is prohibited to be discharged at sea.
- (6) **Operational Wastes:** solid wastes (including slurries) that are collected on board during normal maintenance or operations of a ship, or used for cargo stowage and handling. Operational wastes also include cleaning agents and additives contained in cargo hold and external wash water that may be harmful to the aquatic environment. Operational wastes do not include grey water, bilge water, or other similar discharges essential to the operation of a ship (boiler/economizer blowdown, gas turbine washwater, machinery wastewater etc). Garbage under this category is prohibited to be discharged at sea.
- (7) **Cargo residues:** remnants of any cargo which remain on the deck or in holds following loading or unloading. This category does not include cargo dust remaining on the deck after sweeping or dust on the external surfaces of the ship. Such garbage may be discharged at sea under specific circumstances/requirements. It is essential to remember that besides other requirements (e.g. distance from shore) cargo residues in order to be discharged at sea they should not be harmful to the marine environment.
- (8) **Animal Carcasses:** bodies of any animals that are carried on board as cargo and that die or are euthanized during the voyage. Discharge of such wastes permitted at sea under specific circumstances/requirements .
- (9) **Fishing Gear:** physical device that may be placed on or in the water or on the sea-bed with the intended purpose of capturing marine or fresh water organisms. Garbage under this category is prohibited to be discharged at sea.



These new categories represent the categories to be used for record purposes in the Garbage Record Book. The superseded MARPOL Annex V defined six categories whereas the revised Annex defines nine.

Summary of restrictions to the discharge of garbage into the sea under regulations 4, 5 and 6 of MARPOL Annex V is presented in Annex 1 of this directive.

5 Exception

- (1) Regulations 3, 4, 5 and 6 of MARPOL Annex V do not apply to:
 - (a) The discharge of garbage from a ship necessary for the purpose of securing the safety of a ship and those on board or saving life at sea; or
 - (b) The accidental loss of garbage resulting from damage to a ship or its equipment, provided that all reasonable precautions have been taken before and after the occurrence of the damage, to prevent or minimize the accidental loss; or
 - (c) The accidental loss of fishing gear from a ship provided that all reasonable precautions have been taken to prevent such loss; or
 - (d) The discharge of fishing gear from a ship for the protection of the marine environment or for the safety of that ship or its crew.
- (2) Exception of en route:

The *en route* requirements of regulations 4 and 6 do not apply to the discharge of food wastes where it is clear the retention on board of these food wastes presents an imminent health risk to the people on board.

6 Placards

- (1) Every ship of 12m or more in length overall, and fixed or floating platforms, must display placards which notify the crew and passengers of the discharge requirements of regulations 3, 4, 5 and 6 of MARPOL Annex V, as applicable.
- (2) The placards must be written in the working language of the ship's crew and if this is not English, must also be in English.



- (3) Sample placard targeting crew and shipboard operations, sample placard targeting fixed or floating platforms and ships operating within 500 metres of such platforms and sample placard targeting passengers are available in the IMO Resolution MEPC.219(63) " 2012 Guidelines for the Implementation of MARPOL Annex V".

7 Garbage Management Plans

- (1) Every ship of 100 gross tonnage and above, and every ship certified to carry 15 or more persons, and fixed and floating platforms are required to carry and implement a garbage management plan that specifies procedures to be followed to ensure proper and efficient handling and storage of garbage.
- (2) A garbage management plan should be developed that can be incorporated into crew and ship operating manuals. Such manuals should identify crew responsibilities and procedures for all aspects of handling and storing garbage on board the ship. Procedures for handling ship-generated garbage should include four phases: collection, processing, storage, and discharge, specific procedures for each phase are discussed in IMO Resolution MEPC.219(63) " 2012 Guidelines for the Implementation of MARPOL Annex V", such a plan shall be based on the guidelines developed by the IMO and must be written in the working language of the ship's crew and if this is not English, must also be in English. The Garbage Management Plan does not need to be approved by the PMA nor on our behalf.
- (3) A generalized garbage management plan for handling and storing ship generated garbage is summary in diagram in Annex 2 of this directive.

8 Garbage Record Book:

- (1) Every ship of 400 gross tonnage and above and every ship which is certified to carry 15 or more persons engaged in voyages to ports or offshore terminals under the jurisdiction of another Party to the MARPOL Convention and every fixed or floating platform must have a Garbage Record Book.
- (2) The PMA does not produce 'Garbage Record Books'. Companies may produce their own record book. The Garbage Record Book, whether as part



of the ship's official log-book or otherwise, must be in the format prescribed by the International Maritime Organisation (IMO) in appendix of the MARPOL Annex V. The Garbage Record Book does not need to be approved by the PMA nor on our behalf

- (3) Each discharge into the sea or to a reception facility, or a completed incineration, must be:
 - (a) promptly recorded in the Garbage Record Book; and
 - (b) signed for on the date of the discharge or incineration by the officer in charge.
- (4) Each completed page of the Garbage Record Book must be signed by the master of the ship. The entries in the Garbage Record Book must be in English.
- (5) The entry for each discharge or incineration must include:
 - (a) date and time;
 - (b) position of the ship;
 - (c) category of the garbage; and
 - (d) the estimated amount discharged or incinerated.
- (6) The Garbage Record Book must be kept on board the ship or the fixed or floating platform, and in such a place as to be readily available for inspection at all reasonable times. This document must be preserved for a period of at least two years from the date of the last entry made in it.
- (7) In the event of any discharge or accidental loss referred in paragraph 5 (Exception) of this directive an entry must be made in:
 - (a) the Garbage Record Book, or
 - (b) the ship's official log book in the case of any ship of less than 400 gross tonnage.
- (8) The PMA may waive the requirements for Garbage Record Books for:
 - (a) any ship engaged on voyages of one hour or less in duration which is certified to carry 15 or more persons; or
 - (b) fixed or floating platforms.



- (9) The accidental loss or discharge of fishing gear as provided in paragraph 5 (Exception) of this directive which poses a significant threat to the marine environment or navigation must be reported to the PMA, and, where the loss or discharge occurs within waters subject to the jurisdiction of another State, also to that State.

9 Port Reception Facility

- (1) in order to enhance the implementation of the onboard Garbage Management Plan and to exercise better garbage handling procedures in overall, ships' crews and ship's agents could use the IMO's developed standard format for the advance notification of waste delivery to port reception facilities as defined in the Appendix 2 of the IMO Circular MEPC.1/Circ.834 issue on 15 April 2014 or the updated revision.
- (2) In addition, where a ships' Master or agent finds reception facilities in a port inadequate (for example the facility required is not available or is inconveniently located, has unreasonable charges and/or cause undue delay) the Master should forward the information contained in the Appendix 1 of the IMO Circular MEPC.1/Circ.834, together with any supporting documentation, to the PMA and to the competent Authorities in the port State, The PMA will notify IMO accordingly.
- (3) During delivery of MARPOL residues/wastes, appropriate procedures as drawn up in the ship's Safety Management System (ISM Code) should be followed. Following delivery garbage to the port reception facilities, the ship's master should request a **Waste Delivery Receipt** from the waste reception facilities service providers, as outline in the Appendix 3 of the IMO Circular MEPC.1/Circ.834, receipts or certificates of the delivery should be kept in the Garbage Record Book for a minimum of 2 years.

10 Port state control

- (1) The foreign ship may be subject to inspection by PMA port State control officer (PSCO) while it's in the territorial water of the Kingdom of Bahrain to ensure it compliance with the operational requirements of the MARPOL Annex V.



- (2) The PSCO has the right, without limiting, to:
 - (a) inspect the Garbage Record Books or ship's official log-book;
 - (b) make a copy of any entry in those books; and
 - (c) require the master of the ship to certify that the copy is a true copy of such an entry.

- (3) The detainable deficiencies that may warrant the detention of the ship involved, which are not intended to be exhaustive are:
 - (a) Absence of the garbage management plan.
 - (b) No garbage record book available.
 - (c) Ship's personnel not familiar with disposal/discharge requirements of garbage management plan.
 - (d) the ship cannot proceed to sea without presenting an unreasonable threat of harm to the marine environment

- (4) Each person who willfully impedes the authorized employees (inspector) or the experts in the exercise of a power conferred by article 25 of legislative decree law no.14/1978: Law for Registration of Ships and Determination of Safety Conditions thereof, commits an offence and is liable to imprisonment for a period of no more than one month and a fine not exceeding BD 100 or either penalty.

11 Training

Training must be provided for all crew members who are involved in operating the garbage processing equipment, and handling and disposing of garbage as part of their operational responsibilities. Such a program should be reviewed annually and should define what constitutes garbage and the applicable regulations for handling and disposal. Material for training could include posters, brochures, photographs and video tapes.

12 Further Reading:

For further reading regarding revised MARPOL Annex V requirements you can also refer to the following:

- Revised MARPOL Annex V (MEPC.201(62) adopted on 15 June 2011)



- 2012 Guidelines for the implementation of MARPOL Annex V (MEPC.219(63) adopted on 2 March 2012)
- 2012 Guidelines for the development of Garbage Management Plans (MEPC.220(63) adopted on 2 March 2012)
- Consolidated guidance for port reception facility providers and users (MEPC.1/Circ.834 adopted on 15 April 2014)

13 Revision History:

Revision No. 1 of the present Directive is the first revision.

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Undersecretary for Ports and Maritime Affairs
14th December 2016



ANNEX – 1

SUMMARY OF RESTRICTIONS TO THE DISCHARGE OF GARBAGE INTO THE SEA
UNDER REGULATIONS 4, 5 AND 6 OF MARPOL ANNEX V

Type of garbage	Ships outside special areas	Ships within special areas	Offshore platforms and all ships within 500 m of such platforms
Food waste comminuted or ground	Discharge permitted ≥ 3 nm from the nearest land and <i>en route</i>	Discharge permitted ≥ 12 nm from the nearest land and <i>en route</i>	Discharge permitted ≥ 12 nm from the nearest land
Food waste not comminuted or ground	Discharge permitted ≥ 12 nm from the nearest land and <i>en route</i>	Discharge prohibited	Discharge prohibited
Cargo residues ¹ not contained in wash water	Discharge permitted ≥ 12 nm from the nearest land and <i>en route</i>	Discharge prohibited	Discharge prohibited
Cargo residues ¹ contained in wash water		Discharge only permitted in specific circumstances ² and ≥ 12 nm from the nearest land and <i>en route</i>	Discharge prohibited
Cleaning agents and additives ¹ contained in cargo hold wash water	Discharge permitted	Discharge only permitted ² in specific circumstances and ≥ 12 nm from the nearest land and <i>en route</i>	Discharge prohibited
Cleaning agents and additives ¹ contained in deck and external surfaces wash water		Discharge permitted	Discharge prohibited
Carcasses of animals carried on board as cargo and which died during the voyage	Discharge permitted as far from the nearest land as possible and <i>en route</i>	Discharge prohibited	Discharge prohibited
All other garbage including plastics, domestic wastes, cooking oil, incinerator ashes, operational wastes and fishing gear	Discharge prohibited	Discharge prohibited	Discharge prohibited
Mixed garbage	When garbage is mixed with or contaminated by other substances prohibited from discharge or having different discharge requirements, the more stringent requirements shall apply		

¹ These substances must not be harmful to the marine environment.

² According to regulation 6.1.2 of MARPOL Annex V, the discharge shall only be allowed if: (a) both the port of departure and the next port of destination are within the special area and the ship will not transit outside the special area between these ports (regulation 6.1.2.2); and (b) if no adequate reception facilities are available at those ports (regulation 6.1.2.3).



ANNEX – 2

OPTIONS FOR SHIPBOARD HANDLING AND DISCHARGE OF GARBAGE

