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## **Engineering Circular No. 01 of 2013**

**NO: ENG/OPP-38(1)2008/ANNEX V**

**Dated: 8th January, 2013.**

**Subject: Guidelines for the implementation of revised MARPOL Annex V**

### **1. Introduction:**

The Marine Environment Protection Committee (MEPC) of International Maritime Organization (IMO), at its sixty-second session in July 2011, adopted the Revised MARPOL Annex V concerning Regulations for the prevention of pollution by garbage from ships, which enters into force on 1 January 2013. The text of the amendments is set forth under Resolution **MEPC.201(62)** (see **Engineering Circular No. 140 dated 24<sup>th</sup> November 2011**).

### **2. Applicability:**

2.1 MARPOL Annex V applies to all ships, unless expressly provided otherwise

2.2 Revised MARPOL Annex V is contained in MEPC.201 (62), and the guidelines for its implementation in MEPC.219 (53). It is critical that both these documents be read in conjunction with this Circular and that their provisions implemented accordingly.

### **3. Discharge Criteria:**

3.1 There is a general obligation to prevent pollution of sea by garbage and prohibits the discharge of all types of garbage into the sea unless expressly provided otherwise. The new requirements for such permitted discharge is summarised as follows:

3.2 Disposal of garbage outside special areas : *The disposal of following garbage outside special areas shall only be permitted while the ship is en route and as far as practicable from the nearest land, but in any case not less than:*

3.2.1 3 nautical miles from the nearest land for food wastes which have been passed through a comminuter or grinder. Such comminuted or ground food wastes shall be capable of passing through a screen with openings no greater than 25 mm.

3.2.2 12 nautical miles from the nearest land for food wastes that have not been treated in accordance with subparagraph 2.1.1 above.

3.2.3 12 nautical miles from the nearest land for cargo residues that cannot be recovered using commonly available methods for unloading. These cargo residues must not contain any substance classified as harmful to the marine environment, taking reference of 2012 Guidelines for the implementation MARPOL Annex V [Resolution MEPC.219 (63)].

3.2.4 For animal carcasses discharge shall occur as far from the nearest land as possible, taking into account 2012 Guidelines for the implementation MARPOL Annex V [Resolution MEPC.219 (63)].

3.2.5 Cleaning agents or additives contained in cargo hold, deck and external surfaces wash water may be discharged into the sea, but these substances must not be harmful to the marine environment.

3.2.6 When garbage is mixed with or contaminated by other substances prohibited from discharge or having different discharge requirements, the more stringent requirements shall apply.

3.2.7 For a fixed or floating platform located more than 12 nautical miles from the nearest land and from all other ships when alongside or within 500 m of such platforms, food wastes may be discharged into the sea only if they have been passed through a comminuter or grinder with a screen opening no greater than 25mm. Fixed or floating platforms and all other ships when alongside or within 500 m of such platforms are prohibited from discharging non-comminuted/non-ground food waste into the sea.

**3.3 Discharge of garbage within special areas:** *Discharge of the following garbage into the sea within special areas shall only be permitted while the ship is en route and as follows:*

3.3.1 Discharge into the sea of food wastes as far as practicable from the nearest land, but not less than 12 nautical miles from the nearest land or the nearest ice shelf. Food wastes must be comminuted or ground and shall be capable of passing through a screen with openings no greater than 25 mm. Food wastes must be uncontaminated by any other garbage type. Discharge of introduced avian products, including poultry and poultry parts, is not permitted in the Antarctic area unless it has been treated to be made sterile.

3.3.2 Discharge of cargo residues that cannot be recovered using commonly available methods for unloading where the following conditions are satisfied:

3.3.3.1 Cargo residues, cleaning agents or additives, contained in hold washing water do not include any substances classified as harmful to the marine environment.

3.3.3.2 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 those ports;

3.3.3.3 No adequate reception facilities are available at those ports taking into account 2012 Guidelines for the implementation MARPOL Annex V [Resolution MEPC.219 (63)]; and

3.3.3.4 Where the conditions of sub-para 3.1.2.1, 3.1.2.2, 3.1.2.3 of above para have been fulfilled, discharge of cargo hold washing water containing residues shall be made as far as practicable from the nearest land or the nearest ice shelf and not less than 12 nautical miles from the nearest land or the nearest ice shelf.

3.3.4 Cleaning agents or additives contained in deck and external surfaces wash water may be discharged into the sea, but these substances should not be harmful to the marine environment.

3.3.5 When garbage is mixed with or contaminated by other substances prohibited from discharge or having different discharge requirements the more stringent requirements shall apply.

#### **4. Placards, Garbage Management Plan and Garbage Record Book**

4.1 Every ship of twelve meters or more in length overall and fixed and floating platforms engaged in exploration and exploitation of the sea-bed shall display placards which notify the crew and passengers of the applicable disposal requirements. The placards are to contain as a minimum the information stated in the sample placards provided in the IMO guideline MEPC.219 (63).

4.2 Every ship of one hundred gross tonnage and above and every ship which is certified to carry fifteen persons or more and fixed and floating platforms engaged in exploration and exploitation of the sea-bed, shall carry a garbage management plan, providing written procedures for collecting, storing, processing and disposing of garbage, including the use of the equipment on board, to be followed by its crew and shall also designate the person in charge of carrying out such plan. The Garbage Management Plan shall be based on the guidelines developed by the IMO- Resolution MEPC.220 (63) adopted on 2<sup>nd</sup> March 2012.

4.3 Every ship of four hundred gross tonnage and above and every ship which is certified to carry fifteen persons or more engaged in voyage to ports or offshore terminal and every fixed and floating platform engaged in exploration and exploitation of the sea-bed shall be provided with a Garbage Record Book. The Garbage Record Book, whether as part of the ship's official log-book or otherwise, shall-

4.3.1 record each discharge operation or completed incineration in English and shall be signed on the date of such incineration or discharge by the officer in charge and also, each completed page shall be signed by the master of the ship.

4.3.2 the entry for each discharge or incineration shall include date and time, position of the ship, category of the garbage and the estimated amount discharge or incinerated.

4.3.3 be kept on board the ship and in such other places that it shall be available for inspection within a reasonable time;

4.3.4 be preserved for a period of two years after the last entry is made there on;

4.3.5 record the circumstances of, and the reasons for, any loss, in the event of discharge, escape or accidental loss or in the case of ships of less than four hundred gross tonnage, an entry shall be made in the ship's official log-book, of the location, circumstances of, and the reasons for, the discharge or loss and details of the items discharged or lost, and the reasonable precautions taken to prevent or minimize such discharge or accidental loss.

4.4 The accidental loss or discharge of fishing gear as provided for in regulation 7.1.3 and 7.1.4 which poses a significant threat to the marine environment or navigation shall be reported to the Directorate General of Shipping, and, where the loss has occurred within waters subject to the jurisdiction of a coastal state, also to that coastal state.

4.5 There are several new definitions in the revised Annex including- animal carcass(es), cargo residues, cooking oil, domestic wastes, fishing gear, food wastes, incinerator ashes, operational wastes and plastics. All of these definitions are now incorporated in the revised general description for "garbage", and are categorized in the Garbage Record Book.

#### **5. Reception Facilities**

5.1 Regulation 8 of MARPOL Annex V requires Nations which are Party to the Convention to ensure that adequate facilities at ports and terminals are available to ships for the reception of garbage. Ports in India are advised to provide adequate reception facility for MARPOL Annex V including the reception for cargo residues which are harmful to the marine environment. Owners or operators of Indian flag ships that encounter inadequate port facilities shall report the situation to the Administration using Form given in MEPC.1/Circ.469/Rev.1

This is issued with the approval of the Competent authority.

  
(DURGESH JHA)  
E&SS cum DDG (Tech)

#### **Appendices**

Appendix 1 - Form of the Garbage Record Book

Appendix 2 - Form of the Record of Garbage Discharges

Appendix 3- Simplified overview of the discharge provisions of the revised MARPOL Annex V.

**Appendix-I**  
**(Engineering Circular 1 of 2013)**

**Guidelines for the implementation of revised MARPOL Annex V**

**FORM OF GARBAGE RECORD BOOK**

Name of ship: \_\_\_\_\_

Distinctive number of letters: \_\_\_\_\_

IMO No.: \_\_\_\_\_

Period From: \_\_\_\_\_ To: \_\_\_\_\_

**1. Introduction** – In accordance with regulation 10 of Annex V of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 (MARPOL), a record is to be kept of each discharge operation or completed incineration including discharge operation or completed incineration including the discharges at sea, to reception facilities, or to other ships, as well as the accidental loss of garbage.

**2. Garbage and garbage management** – Garbage includes all, kinds of food, domestic and operational waste all plastics, cargo residues, cooking oil, fishing gear and animal carcasses excluding fresh fish and parts thereof, 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 MARPOL 73/78 (such as oil, sewage or noxious liquid substances) and the guidelines for the implementation of Annex V of MARPOL 73/78 should also be referred to for relevant information. 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.

*The 2012 Guidelines as per MEPC219 (63), for the Implementation of Annex V of MARPOL should also be referred to for relevant information.*

**3. Description of the garbage** – the garbage is to be grouped into categories for the purposes of the Garbage Record Book (or ship's official log book) as follows:-

- A. Plastic
- B. Food Wastes
- C. Domestic Wastes
- D. Cooking Oil
- E. Incinerator ash
- F. Operational Wastes
- G. Cargo residues
- H. Animal Carcass(es)
- I. Fishing Gear

**1. Entries in the Garbage Record Book –**

*1.1 Entries in the Garbage Record Book shall be made on each of the following occasions:-*

**4.1.1** When the garbage is discharged to reception facilities<sup>1</sup> ashore or to other ships:

- .1 Date and time of discharge
- .2 Port or facility, or name of ship
- .3 Category of garbage discharged
- .4 Estimated amount discharged for each category
- .5 Signature of the officer in charge of the operation

**4.1.2** When garbage is incinerated:

- .1 Date and time of start and stop of incineration
- .2 Position of the ship (latitude and longitude) at the start and stop of incineration
- .3 Categories of garbage incinerated
- .4 Estimated amount incinerated in cubic meters
- .5 Signature of the officer in charge of the operation.

4.1.3 When garbage is discharged into the sea in accordance with regulation 4, 5 or 6 of Annex V of MARPOL:

- .1 Date and time of discharge
- .2 Position of the ship (latitude and longitude) Note: For cargo residue discharges, include discharge start and stop positions.
- .3 Category of garbage discharged
- .4 Estimated amount discharged for each category in cubic meters
- .5 Signature of the officer in charge of the operation

4.1.4 Accidental or other exceptional discharge or loss of garbage into the sea, including in accordance with regulation of 7 of MARPOL Annex V

- .1 Date and Time of occurrence
- .2 Port or position of the ship at time of occurrence (latitude, longitude and water depth if known)
- .3 Categories of garbage discharged or lost
- .4 Estimated amount and category of garbage
- .5 The reason for the discharge or loss and general remarks.

4.1.5 **Receipts** – The master should obtain from the operator of port reception facilities, or from the master of the ship receiving the garbage, a receipt or certificate specifying the estimated amount of garbage transferred and the receipt or certificate must be kept on board the ship with the Garbage Record Book for two years.

4.1.6 **Amount of garbage** – The amount of garbage on board shall be estimated in cubic meters, if possible, separately according to category. The Garbage Record Book contains many references to estimated amount of garbage, it is recognized that the accuracy of estimated amounts of garbage is left to interpretation and volume estimates shall differ before and after processing and some processing procedures may not allow for a usable estimate of volume, e.g. the continuous processing of food waste such factors should be taken into consideration when making and interpreting entries made in the record.

**Appendix-II**  
(Engineering Circular 1 of 2013)

**RECORD OF GARBAGE DISCHARGES**

1. Ship's name: \_\_\_\_\_
2. Distinctive No. of letter: \_\_\_\_\_
3. IMO No.: \_\_\_\_\_

4. Garbage categories:

- A. Plastic
- B. Food Wastes
- C. Domestic Wastes
- D. Cooking Oil
- E. Incinerator ash
- F. Operational Wastes
- G. Cargo residues
- H. Animal Carcass(es)
- I. Fishing Gear

5. Table layout as below:

Date/ Time	Position of the Ship/Remarks (e.g., accidental loss)	Category	Amount Discharged or Incinerated	To Sea	To Reception Facility	Incineration	Certification/ Signature

Master's signature: \_\_\_\_\_ Date: \_\_\_\_\_



## Appendix-III

(Engineering Circular 1 of 2013)

### Simplified overview of the discharge provisions of the revised MARPOL Annex V

Garbage Type *	All ships except platforms *		Offshore platforms located more than 12 nm from nearest land and ships when alongside or within 500 metres of such platforms <sup>4</sup> Regulation 5
	Outside special areas Regulation 4 (Distances are from the nearest land)	Within special areas Regulation 6 (Distances are from nearest land or ice-shelf)	
Food waste comminuted or ground <sup>2</sup>	≥3 nm, en route and as far as practicable	≥12 nm, en route and as far as practicable <sup>3</sup>	Discharge permitted
Food waste not comminuted or ground	≥12 nm, en route and as far as practicable	Discharge prohibited	Discharge prohibited
Cargo residues <sup>5,6</sup> not contained in washwater	≥12 nm, en route and as far as practicable	Discharge prohibited	Discharge prohibited
Cargo residues <sup>5,6</sup> contained in washwater		≥12 nm, en route and as far as practicable (subject to conditions in regulation 6.1.2)	
Cleaning agents and additives <sup>7</sup> contained in cargo hold washwater	Discharge permitted	≥12 nm, en route and as far as practicable (subject to conditions in regulation 6.1.2)	Discharge prohibited
Cleaning agents and additives <sup>7</sup> in deck and external surfaces washwater		Discharge permitted	Discharge prohibited
Animal carcasses (should be split or otherwise treated to ensure the carcasses will sink immediately)	Must be en route and as far from the nearest land as possible. Should be >100 nm and maximum water depth	Discharge prohibited	Discharge prohibited
All other garbage including plastics, synthetic ropes, fishing gear, plastic garbage bags, incinerator ashes, clinkers, cooking oil, floating dunnage, lining and packing materials, paper, rags, glass, metal, bottles, crockery and similar refuse	Discharge prohibited	Discharge prohibited	Discharge prohibited

#### NOTES:

- When garbage is mixed with or contaminated by other harmful substances prohibited from discharge or having different discharge requirements, the more stringent requirements shall apply.
- Comminuted or ground food wastes must be able to pass through a screen with mesh no larger than 25mm.
- The discharge of introduced avian products in the Antarctic area is not permitted unless incinerated, autoclaved or otherwise treated to be made sterile.
- Offshore platforms located 12 nm from nearest land and associated ships include all fixed or floating platforms engaged in exploration or exploitation or associated processing of seabed mineral resources, and all ships alongside or within 500 m of such platforms.