**MINISTRY OF TRANSPORT**

**EXECUTIVE AGENCY “MARITIME ADMINISTRATION”**

**ORDER № 102**Sofia, 15 December 2008

Implementing the provisions laid down in Resolution 157 of the 55th session of the Marine Environment Protection Committee (Resolution MEPC.157(55) of the International Maritime Organization, referring to Regulation 11.1.1 of Annex IV, Rules for the Prevention of Pollution from Ships of the International Convention for the Prevention of Pollution from Ships (MARPOL 73/78), pursuant to Article 362 of the Merchant Shipping Code,

**ORDER:**

It shall be prohibited to discharge untreated waste water with an intensity greater than those determined in accordance with the methodology laid down in that disposal.

**I.General provisions**

1. This disposal determines the intensity of discharge of untreated waste water in accordance with Resolution MEPC.157(55).
2. The Order shall apply to seagoing passenger ships and cargo ships engaged on international voyages in the case of discharges of untreated effluents, as follows:
3. Existing vessels of 400 GT and above;
4. Existing vessels with a gross tonnage of less than 400 GT certified to carry more than 15 persons;
5. The Order shall not apply to military and military transport vessels, non-self-propelled ships, wooden ships of primitive construction, pleasure yachts not engaged in commercial activities and fishing vessels.

**II. Definition**

Untreated waste water within the meaning of Resolution MERC. 157(55) are waste water which have not been treated by a sewage treatment system or sewage crushing and decontamination system.

1. **Obligations of shipowners**
2. Any shipowner of a ship falling within the scope of item 1. 2 is obliged to supply his ships with “A declaration of the intensity of discharge of untreated wastewater”.
3. In order to supply the ship with an “Calculation of the intensity of discharge of untreated waste water”, the shipowner shall submit an application to the Maritime Administration Directorate, where the vessel is registered, for the determination of the average intensity of discharge of untreated waste water from ships.
4. In the application, the shipowner shall provide the following details of the vessel: registration number/IMO number; shipowner/operator; the first ship in the series; maximum speed of vessel V in knots; maximum draught loaded dmax, (metres); operating draught at a minimum load on the ship dmin, (metres); the width of the vessel, (metres); pump performance, m3/h.
5. Upon receipt of the approved “Report on the intensity of discharge of untreated wastewater”, the document shall be sent to the ship and attached to the “International Sewage Pollution Prevention Certificate”.
6. In the event of a change in the ship’s data submitted under item III.3., the shipowner shall inform the Maritime Administration Directorate, which has prepared an “Calculation of the intensity of discharge of untreated waste water” for reissuance of the same.
7. The shipowners shall include in the Company’s “Safety Management System” the *ensuing* obligations of the coastal management and the crew of the ship.
8. **Obligations of the Maritime Administration Directorates**
9. The Maritime Administration Directorate accepts the applications submitted by the shipowner for approval of the “Intensity of discharge intensity of untreated waste water”
10. The staff of the relevant departments of the Maritime Administration Directorates check the consistency of the data in the submitted applications, perform the calculations in accordance with the methodology.
11. The calculations shall be completed in a document in the form of the Annex to this Order and the document shall be approved by the Directors of the Maritime Administration Directorates.
12. A copy of the approved “Export on the intensity of discharge of raw waste water” shall be kept in the ship’s file in the relevant Maritime Administration Directorate.
13. **Methodology for calculating the intensity of discharge of untreated** waste water **from ships”**

1. The maximum permissible discharge intensity (rate) is determined by the formula

**DRmax = 0.00926 V d B,** m3/h, where

V — Speed of the vessel in knots at the time of discharge,

d- Gazene of the vessel in metres,

B — The ship’s width in meters.

The results of the calculation for the different speeds shall be presented in the following table:

Table 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Discharge intensity,m3/h | | | | | |
| Draught, m/ | Speed, knots | | | | |
| Vmin> 4 | (V) | V2 | V3 | V max |
| the Dmin |  |  |  |  |  |
| D1 |  |  |  |  |  |
| D2 |  |  |  |  |  |
| Dmax Summer |  |  |  |  |  |

*Please note: The speed and draught data of the vessel shall depend on the particulars of the vessel concerned. The minimum speed of the ship cannot be but small of 4 knots.*

The choice of the ship’s operating parameters (V and d) shall be made so that the actual intensity of discharge of the raw waste water does not exceed the meanings of the calculated maximum permissible discharge intensity, i.e. the following condition is fulfilled:

Qpump **≤ DRmax** where

Qpum- fixed pump performance (m³/h)

On the basis of the choice of permissible DRmax meanings in accordance with the calculated meanings given in Table 1, the following minimum operating speed values of the vessel Vmin depending on the ship’s operating draught are allowed:

table 2

|  |  |
| --- | --- |
| Ship’s draught | Speed, knots |
| Dmin | Vmin≥v3 |
| D1 | Vmin≥v2 |
| D2 | Vmin≥v2 |
| Dmax Summer | Vmin≥v1 |

**V. Procedure for monitoring the intensity of discharge of untreated wastewater from ships**

1. If untreated wastewater is necessary, the crew member responsible for the sewage operation shall be satisfied that the ship is underway and is more than 12 nautical miles from the nearest coast as defined in MARPOL 73/78 Regulation 1(5) of Annex IV (Rules for the Prevention of Wastewater Pollution from Ships) and speed and draught correspond to the approved discharge intensity. The speed of the ship shall in no case be less than 4 knots.
2. The logbook shall record the actual speed, coordinates and intensity at the beginning and end of the discharge of the raw waste water.

**VI. Enforcement**

1. This order shall be brought to the attention of all Bulgarian shipowners of ships falling within the scope of item 1.2.
2. The Bulgarian shipowners shall prepare and send copies of this Order to their ships for information and execution by the masters.
3. The Directors of the Maritime Administration Directorate organize the familiarization and implementation of the Order by the staff of the departments concerned.
4. The order to be published on the website of the Executive Agency Maritime Administration.

**VII. Fees to determine the intensity of discharge of untreated wastewater from ships.**

1. For inspection, calculation, approval and issuance of a document “Explorations of the intensity of discharge of untreated waste water from ships” by DMA Varna/Burgas shall be charged in accordance with Tariff No 5 for the fees collected in the system of the Ministry of Transport and Communications.

1. **Entry into force**

This Order shall enter into force on 27 September 2008.

1. **Control**

I entrust Mr Petar Kirov, Deputy Executive Director of the EAMA with the monitoring of the implementation of this Order.

**KDP. NIKOLAY APOSTOLOV,**

Executive Director

Executive Agency “Maritime Administration”

*Annex to m.IV.3*

*/Approved/*

*/signiture/*

*/name/*

***Calculation of the discharge rate of untreated sewwage  
for m/v"”***

Directorate Maritime Administration — 2008

*Particulars of Ship*

*Distinctive number/IMO number*

*Shipowner/Operator*

*First Ship in Series*

*Maximum Speed, knots*

*Maximum load Draught, p.*

*Draught for minimum practicable ship’s loading condition, m/*

*Breadth, p.*

*Pump Flow, m3/h/*

**Calculation of *discharge rate.***

1. .The *maximum permissible discharge rate as follows:*

**DRmax = 0.00926 V d B,** m3/h/ *m3/h where* / *where*

*V —* *ship’s speed (knots) over the period of discharge;*

D —*draught (s);*

B —*breadth(s).*

1. .Results of *Calculation results:*

*note. The results of the estimates can be found in the table below.*

Table *1*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Discharge rate*, m3/h* | | | | | |
| Draught, m | speed*, knots* | | | | |
| Vmin> 4 | V1 | V2 | V3 | V max |
| Dmin |  |  |  |  |  |
| D1 |  |  |  |  |  |
| D2 |  |  |  |  |  |
| Dmax Summer |  |  |  |  |  |

*note. Values of speed and Draught have to he indicated subject to specifics of specific ship. Minimum speed of ship cannot be indicated less than 4 knots.*

1. .The choice of the operating parameters of the ship (V and d) where the actual intensity of discharge of raw waste water does not exceed the meanings of the estimated maximum permissible discharge intensity, i.e. the following conditions are met:

*Option of ship’s operation parameters (V u d) when actual discharge rate not exceeds the maximum permissible discharge rate, i.e. following condition is implemented:*

Qpump ≤ **DRmax** *where*

Qpump- fixed pump performance (m³/h)/fixed *pump flow (m3/h);*

The following minimum operating speed values of the vessel Vmin depending on the operational draught of the vessel are allowed for the choice of permissible DRmax meanings in accordance with the estimated data given in Table 2:

*On the basis of permissible values of DRmax in the Table 1 the following values of minimum operation speed Vmin is permitted subject to operation Draught of ship:*

Table *2*

|  |  |
| --- | --- |
| *Draught, m* | *Speed, knots* |
| the Dmin | Vmin>V3 |
| D1 | Vmin≥V2 |
| D2 | Vmin≥V2 |
| Dmax Summer | Vmin≥V1 |