



PANAMA MARITIME AUTHORITY
Directorate General of Merchant Marine
Segumar Panama

Merchant Marine Circular No. 168

To: Owners/Operators of Panamanian Vessels, Recognized Organizations and Masters.

Subject: Approval of rate of Discharge of Sewage

References: Resolution MEPC.157(55); MARPOL Annex IV. 11.1.1

The [Regulation 11.1.1](#) of the revised Annex IV of MARPOL 73/78 requires that untreated sewage, which may be discharged at more than 12 nautical miles from the nearest land, should not be discharged instantaneously but at a moderate rate of discharge, when the ship is “en route” and proceeding at a speed not less than 4 knots, while the rate should be approved by the Administration.

The standards developed by the Organization for the approval and calculation of a moderate rate of discharge are established **on the Resolution MEPC.157(55)**.

The purpose of this Circular, is to inform to all concerned parties, of our procedures to request the approval of rate of discharge.

The request must be sent to authorizations@segumar.com. The Administration will approve the rate of discharge specified in MARPOL Annex IV Reg. 3.1 based upon the ship’s maximum summer draft and maximum service speed. Where sewage is to be discharged at a different combination of draft and speed one or more secondary discharge rates may also be approved. Presentation may be tabular, refer to table below

DISCHARGE RATE (m ³ /h)					
SPEED (kt)	4	6	8	10	12
DRAFT (m)					
5	4.63	6.94	9.26	11.57	13.89
6	5.56	8.33	11.11	13.89	16.67
7	6.48	9.72	12.96	16.20	19.45

8	7.41	11.11	14.82	18.52	22.22
9	8.33	12.50	16.67	20.83	25.00

The maximum permissible discharge rate is 1/200,000 (or one 200,000th part) of swept volume as follows:

Where:

DR_{max} is maximum permissible discharge rate (m^3/h)

V is ship's average speed (knots) over the period

D is Draft (m)

B is Breadth (m)

After the evaluation Segumar Panama office will issued and approval letter.

July 2008

Inquiries concerning the subject of this Circular or any request should be directed to:

Panama Maritime Authority

Tel: (507) 501-5010

General Directorate of Merchant Marine

Fax: (507)501-5011

P.O. Box 5245 Panama 5

Republic of Panama