



Department of Marine Administration - Yangon Myanmar

Policy for the Implementation of MARPOL Annex IV

Operational Procedure : QOP - 72 - 01- (02)

Revision: 0

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Subject: POLICY LETTER FOR MARPOL ANNEX IV IMPLEMENTATION

Reference: International Convention for the Prevention of Pollution from Ship (MARPOL ANNEX IV) Regulation for prevention of pollution by Sewage

1. Purpose :

This policy letter provides interim guidance to ensure Myanmar Flag Oceangoing Ships in compliance with (MARPOL ANNEX IV) Regulation for prevention of pollution by Sewage and it's amendments to reference that enter into force on September 27 , 2003.

2. Action:

Myanmar Flag State Surveyors or Recognized Organizations' Surveyors shall use this interim guidance in the oversight of their respective Myanmar Flag fleet and foreign going ships calling on Myanmar ports subject to reference.

3. Directive Affected :

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4. Background:

The Department of Marine Administration shall ensure that existing ships, according to subparagraphs 1.3 and 1.4 of MARPOL Annex IV regulation, the keels of which are laid or which are of a similar stage of construction before 2 October 1983 shall be equipped, as far as practicable, to discharge sewage in accordance with the requirements of regulation 11 of the MARPOL Annex IV.

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Originated by :	This Revision Date :

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5. Limitation:

Discharge of sewage

(A) Discharge of sewage from ships other than passenger ships in all areas and discharge of sewage from passenger ships outside special areas;

1. Subject to the provisions of regulation 3 of MARPOL Annex IV, the discharge of sewage into the sea is prohibited, except when:

- .1 the ship is discharging comminuted and disinfected sewage using a system approved by the DMA or Recognized Organizations in accordance with regulation 9.1.2 of this MARPOL Annex IV at a distance of more than 3 nautical miles from the nearest land, or sewage which is not comminuted or disinfected at a distance of more than 12 nautical miles from the nearest land, provided that, in any case, the sewage that has been stored in holding tanks, or sewage originating from spaces containing living animals, shall not be discharged instantaneously but at a moderate rate when the ship is en route and proceeding at not less than 4 knots; the rate of discharge shall be approved by the DMA based upon standards developed by IMO; or
- .2 the ship has in operation an approved sewage treatment plant which has been certified by the DMA or Recognized Organizations to meet the operational requirements referred to National Standard of the Performance Tests for Sewage Treatment Plant, and the effluent shall not produce visible floating solids nor cause discoloration of the surrounding water.

(B). Discharge of sewage from passenger ships within a special area

2. Subject to the provisions of regulation 3 of Marpol Annex IV, the discharge of sewage from a passenger ship within a special area shall be prohibited:

- a) for new passenger ships on, or after 1 January 2016, subject to paragraph 2 of MARPOL Annex IV regulation 12bis or Myanmar Merchant Shipping National regulation for the prevention of pollution from ship Regulation 18.3,
- b) for existing passenger ships on, or after 1 January 2018, subject to paragraph 2 of MARPOL Annex IV regulation 12bis or Myanmar

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Merchant Shipping National regulation for the prevention of pollution from ship Regulation 18.3,

except when the following conditions are satisfied:

the ship has in operation an approved sewage treatment plant which has been certified by the DMA to meet the operational requirements referred to in regulation 9.2.1 of MARPOL Annex IV, and the effluent shall not produce visible floating solids nor cause discoloration of the surrounding water.

(C). General requirements

3. When the sewage is mixed with wastes or waste water covered by other Annexes of the present Convention, the requirements of those Annexes shall be complied with in addition to the requirements of this Annex."

6. Holding Tank Capacity:

Minimum Capacity Calculation for Sewage Holding Tank

For Crew

The rate of Waste Water per person per day , $A_1 = 96.1$ Ltr/person/day

Where,

N_{p1} =Number of Crew

D_a =Day of operation

T_p =Trip/discharge interval per day

Subtotal waste water :

$$Cr_1 = N_{p1} \times A_1 \times D_a / T_p \text{ Ltr}$$

For Passenger

The rate of Waste Water per person per day $A_2 = 96.1$ Ltr/person/day

Where,

N_{p2} =Number of Passenger

D_a =Day of operation

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Tp=Trip/discharge interval per day

Subtotal waste water :

$$Cr_2 = Np_2 \times A12 \times Da / Tp \text{ Itr}$$

7. Standard Discharge Connections

To enable pipes of reception facilities to be connected with the ship's discharge pipeline, both lines shall be fitted with a standard discharge connection in accordance with the following table:

Standard dimensions of flanges for discharge connections

Description	Dimension
Outside diameter	210 mm
Inner diameter	According to pipe outside diameter
Bolt circle diameter	170 mm
Slots in flange	4 holes, 18 mm in diameter, equidistantly placed on a bolt circle of the above diameter, slotted to the flange periphery. The slot width to be 18 mm
Flange thickness	16 mm
Bolts and nuts: quantity and diameter	4, each of 16 mm in diameter and of suitable length
The flange is designed to accept pipes up to a maximum internal diameter of 100 mm and shall be of steel or other equivalent material having a flat face. This flange, together with a suitable gasket, shall be suitable for a service pressure of 600 kPa. For ships having a moulded depth of 5 m and less, the inner diameter of the discharge connection may be 38 mm.	

8. Enforcement:

Myanmar Flagged ships, compliance should be verified by Flag State Surveyors or Recognized Organizations' Surveyors during normally scheduled inspections, but an educational outreach and awareness approach is encouraged. However, current enforcement options remain in place for willful and egregious violators or repeat offenders.