

Subject

Spare Charges, Additional Fire Extinguishers and Refilling of Extinguishers onboard the Panama flag ships

# **ClassNK**

## ***Technical Information***

No. TEC-1016

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To whom it may concern

ClassNK has issued Technical Information No.TEC-0868 dated 14 October 2011 regarding spare charges, additional fire extinguishers and refilling of extinguishers onboard the Panama flag ships. On the other hand, Merchant Marine Circular No.281 was newly issued by Panama Government, and application of additional portable fire extinguishers was modified.

This Technical Information supersedes the previous ClassNK Technical Information No.TEC-0868.

1. Spare charges and Refilling for portable fire extinguishers

- (1) Spare charges shall be provided for 100% of the first 10 extinguishers and 50% of the remaining fire extinguishers capable of being recharged onboard. Not more than 60 total spare charges are required. Instructions for recharging should be carried onboard.
- (2) For fire extinguishers which can not be recharged onboard, additional portable fire extinguishers of the same quantity, type, capacity and number as determined in above (1) shall be provided.
- (3) Periodic refilling of the cylinders should be in accordance with the manufacturer's recommendations. Only refills approved for the extinguisher may be used for recharging. Partially emptied extinguishers should be recharged.

2. Additional portable fire extinguishers

- (1) Ships constructed on or after 1 January 2009 and contracted for construction on or after 15 April 2009 should use the attached table shown in the MSC.1/Circ.1275 as reference for the number and arrangement of portable fire extinguishers in accommodation spaces, service spaces, control stations, machinery spaces of category A, other machinery spaces, cargo spaces, weather deck and other spaces on board ship. As for ships constructed before 1 January 2009, the Administration encourages to implement this unified interpretation.
- (2) In the case where that the additional portable fire extinguishers provided onboard in accordance with above (1), the information should be written in fire control plans onboard.

(To be continued)

NOTES:

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1. MSC.1/Circ.1275

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Ref. T4/4.01

MSC.1/Circ.1275  
3 June 2008

**UNIFIED INTERPRETATION OF SOLAS CHAPTER II-2 ON THE NUMBER AND  
ARRANGEMENT OF PORTABLE FIRE EXTINGUISHERS ON BOARD SHIPS**

1 The Maritime Safety Committee, at its eighty-fourth session (7 to 16 May 2008), with a view to providing more specific guidance for vague expressions such as “to the satisfaction of the Administration”, which are open to different interpretations contained in IMO instruments, approved the Unified interpretation of SOLAS chapter II-2 on the number and arrangement of portable fire extinguishers on board ships prepared by the Sub-Committee on Fire Protection at its fifty-second session, set out in the annex.

2 Member Governments are invited to use the annexed unified interpretation as guidance when applying relevant provisions of SOLAS chapter II-2 on the number and arrangement of portable fire extinguishers on board ships on or after 1 January 2009 and to bring the unified interpretation to the attention of all parties concerned.

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## ANNEX

### UNIFIED INTERPRETATION ON THE NUMBER AND ARRANGEMENT OF PORTABLE FIRE EXTINGUISHERS ON BOARD SHIPS

#### 1 Scope and application

1.1 The unified interpretation provides guidance on the number and arrangement of portable fire extinguishers on board ships as required by SOLAS regulations II-2/10.3, II-2/10.5.1.2, II-2/10.5.2.2, II-2/10.5.3.2.2, II-2/10.5.4, II-2/18.5.1.1, II-2/18.5.1.2, II-2/19.3.7 and II-2/20.6.2.1 and chapter 4 of the International Code for Fire Safety Systems (FSS Code).

1.2 This unified interpretation should be used for ships constructed on or after 1 January 2009. For ships constructed before 1 January 2009, shipowners are encouraged to implement this unified interpretation.

1.3 SOLAS regulation II-2/10.3.2.3 (regarding the allowed spaces to arrange carbon dioxide fire extinguishers) and paragraph 4.2.1.1.1 of the FSS Code (regarding the quantity of medium of portable fire extinguishers) should be applied to ships constructed on or after 1 January 2009.

#### 2 Unified interpretation on the number and arrangement of portable fire extinguishers in the various types of spaces on board ships

2.1 The table below should be applied for the number and arrangement of portable fire extinguishers in accommodation spaces, service spaces, control stations, machinery spaces of category A, other machinery spaces, cargo spaces, weather deck and other spaces on board ships.

2.2 SOLAS regulation II-2/10.3.2.2 requires that “one of the portable fire extinguishers intended for use in any space shall be stowed near the entrance to that space. It is recommended that the remaining portable fire extinguishers in the public spaces and workshops be located at or near the main entrances and exits.

2.3 If a space is locked when unmanned, portable fire extinguishers required for that space may be kept inside or outside the space.

2.4 Unless expressly provided by the Unified interpretations of SOLAS chapter II-2, the FSS Code, the FTP Code and related fire test procedures (MSC/Circ.1120) or SOLAS regulation II-2/10.5, the following table should be applied to the number and arrangement of portable fire extinguishers in machinery spaces of category A.

### 3 The selection of portable fire extinguishers

The selection of portable fire extinguishers should be appropriate to the fire hazard(s) in the space in accordance with the Guidelines for marine portable fire extinguishers, as adopted by resolution A.951(23). The classes of portable fire extinguishers in the table are only for reference.

**Table – Minimum numbers and distribution of portable fire extinguishers  
in the various types of spaces on board ships**

Type of spaces		Minimum number of extinguishers	Class(es) of extinguisher(s)
Accommodation spaces	Public spaces	1 per 250 m <sup>2</sup> of deck area or fraction thereof	A
	Corridors	Travel distance to extinguishers should not exceed 25 m within each deck and main vertical zone	A
	Stairway	0	
	Lavatories, cabins, offices, pantries containing no cooking appliances	0	
	Hospital	1	A
Service spaces	Laundry drying rooms, pantries containing cooking appliances	1 <sup>2</sup>	A or B
	Lockers and store rooms (having a deck area of 4 m <sup>2</sup> or more ), mail and baggage rooms, specie rooms, workshops (not part of machinery spaces, galleys)	1 <sup>2</sup>	B
	Galleys	1 class B and 1 additional class F or K for galleys with deep fat fryers	B , F or K

Type of spaces		Minimum number of extinguishers	Class(es) of extinguisher(s)
Service spaces	Lockers and store rooms (deck area is less than 4 m <sup>2</sup> )	0	
	Other spaces in which flammable liquids are stowed	In accordance with SOLAS regulation II-2/10.6.3	
Control stations	Control stations (other than wheelhouse)	1	A or C
	Wheelhouse	2, if the wheelhouse is less than 50 m <sup>2</sup> only 1 extinguisher is required <sup>3</sup>	A or C
Machinery spaces of category A	Central control station for propulsion machinery	1, and 1 additional extinguisher suitable for electrical fires when main switchboards are arranged in central control station	A and/or C
	Vicinity of the main switchboards	2	C
	Workshops	1	A or B
	Enclosed space with oil-fired inert gas generators, incinerators and waste disposal units	2	B
	Separately enclosed room with fuel oil purifiers	0	
	Periodically unattended Machinery spaces of category A	1 at each entrance <sup>1</sup>	B
Other spaces	Workshops forming part of machinery spaces and other machinery spaces (auxiliary spaces, electrical equipment spaces, auto – telephone exchange rooms, air conditioning spaces and other similar spaces)	1	B or C
	Weather deck	0 <sup>4</sup>	B

Type of spaces		Minimum number of extinguishers	Class(es) of extinguisher(s)
	Ro-ro spaces and vehicle spaces	No point if space is more than 20 m walking distance from an extinguisher at each deck level <sup>4, 5</sup>	B
	Cargo spaces	0 <sup>4</sup>	B
	Cargo pump-room	2	B
	Helidecks	In accordance with SOLAS regulation II-2/18.5.1	B

**NOTES:**

- <sup>1</sup> A portable fire extinguisher required for a small space may be located outside and near the entrance to that space.
- <sup>2</sup> For service spaces, a portable fire extinguisher required for that small space placed outside or near the entrance to that space may also be considered as part of the requirement for the space in which it is located.
- <sup>3</sup> If the wheelhouse is adjacent with the chartroom and has a door giving direct access to chartroom, no additional fire extinguisher is required in the chart room. The same applies to safety centres if they are within the boundaries of the wheelhouse in passenger ships.
- <sup>4</sup> Two portable fire extinguishers, each having a capacity of not less than 6 kg of dry powder or equivalent, should be provided when dangerous goods are carried on the weather deck, in open ro-ro spaces and vehicle spaces, and in cargo spaces as appropriate. Two portable fire extinguishers, each having a suitable capacity, should be provided on weather deck for tankers.
- <sup>5</sup> No portable fire extinguisher needs to be provided in cargo holds of containerships if motor vehicles with fuel in their tank for their own propulsion are carried in open or closed containers.