

Subject

Controls for fixed carbon dioxide fire-extinguishing systems for ships constructed before 1 October 1994

ClassNK

Technical Information

No. TEC-0794
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To whom it may concern

As for the controls of fixed carbon dioxide fire-extinguishing systems, amended by the Resolution MSC.256(84) at IMO MSC84 on May 2008, please be informed as follows.

1. Revised regulation

By the first scheduled dry-docking after 1 January 2010, fixed carbon dioxide fire-extinguishing systems for the protection of machinery spaces and cargo pump-rooms on ships constructed before 1 July 2002 shall comply with the provisions of paragraph 2.2.2 of chapter 5 of the Fire Safety Systems Code.

The ships constructed on or after 1 October 1994 have been already applied the requirement, since ClassNK Rules have adopted the below requirement.

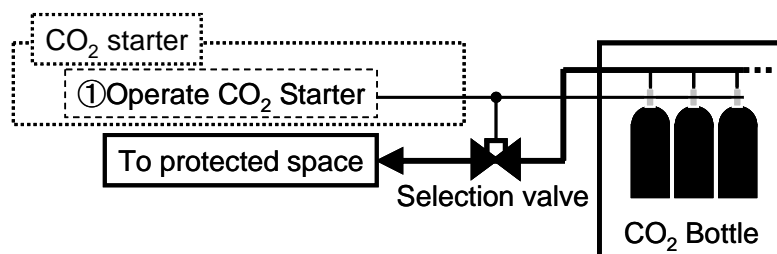
[Chapter 5 2.2.2 Controls, FSS code]

Carbon dioxide systems shall comply with the following requirements:

- 1 two separate controls shall be provided for releasing carbon dioxide into a protected space and to ensure the activation of the alarm. One control shall be used for opening the valve of the piping which conveys the gas into the protected space and a second control shall be used to discharge the gas from its storage containers; and
- 2 the two controls shall be located inside a release box clearly identified for the particular space. If the box containing the controls is to be locked, a key to the box shall be in a break-glass-type enclosure conspicuously located adjacent to the box.

<Example>

Old system
(Nonconforming type)

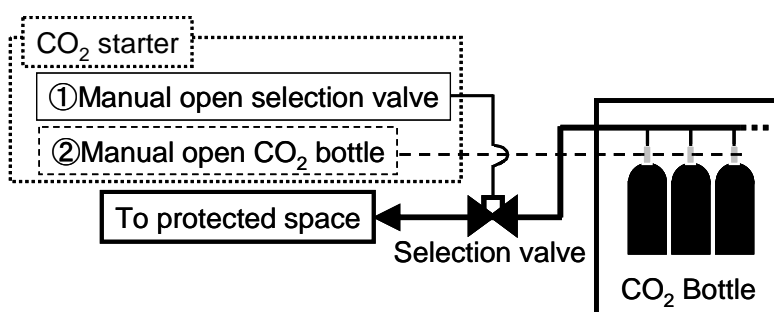


(To be continued)

NOTES:

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New system
(Conforming type)



2. Application ships

For fixed carbon dioxide fire-extinguishing systems for the protection of machinery spaces and cargo pump-rooms installed on ships which had been at the beginning stage of construction before 1 October 1994, it is required to be compliance with the requirements of 2.2.2 Controls (FSS code Chapter 5) by the date of the first scheduled dry-docking after 1 January 2010.

In case of the vessel which not more than 500 gross tonnages and which not required the fixed fire-extinguishing systems under the Rules, if the fixed carbon dioxide fire-extinguishing systems has been installed, it is required to be compliance with the requirements of 2.2.2 Controls (FSS code Chapter 5).

3. Plan approval and Survey

(1) Plan approval

For the ships which are not complied with the requirements, please submit the relevant documents for approval including the follows to ClassNK service site.

- (i) the controls complying with Chapter 5 2.2.2 Controls, FSS code
- (ii) Instruction manual for the controls (the panel which installed near the controls)

(2) Survey

Please carry out the following survey onboard in the presence of ClassNK Surveyor.

- (i) airtight test for starting line (3.5MPa) (only if the piping is added/modified)
- (ii) performance test for alarm systems

For any questions about the above, please contact:

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