

Subject

Periodical Inspection and Maintenance of Fire-extinguishing System on board the Malaysian flag ships

# **ClassNK**

## **Technical Information**

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To whom it may concern

The Malaysian Government has notified the Society of periodical inspection and maintenance of fire-extinguishing system on board the Malaysian flag ships, which are produced as follows:

### 1. Periodical inspection and maintenance of fire-extinguishing system (General)

- (1) All types of permanently installed fire-fighting systems, all types of portable fire extinguishers and breathing apparatus air cylinders must be subjected to periodical inspection and maintenance every year, by approved shore based service stations.
- (2) The attending surveyor may require, based on the results of a periodical inspection, certain containers to be, also, tested hydrostatically.
- (3) Hydrostatic testing is also required after repair.
- (4) Where the loss of content exceeds 10% for CO<sub>2</sub> and 5% for Halon, the container must be recharged.

### 2. Permanently installed fire-fighting systems

- (1) Fixed gas fire-extinguishing systems
  - (i) The quantity of medium in containers must be checked every 12 months.
  - (ii) Periodic hydrostatic testing of high pressure containers must be carried out for not less than 10% of the containers during each 10 years period.
  - (iii) The test pressure shall not be less than 25 N/mm<sup>2</sup> for CO<sub>2</sub> containers and 1.5 times the working pressure for Halon containers.
- (2) Fixed foam fire-extinguishing systems in machinery spaces
  - (i) The first periodical control of foam concentrates stored on board shall be performed after a period of 3 years and, after that, every year.

### 3. Portable fire extinguishers

- (1) Water and foam
  - (i) The charge must be replaced every 12 months. Containers which are permanently under pressure must be tested hydrostatically every 5 years.
  - (ii) Containers which are not kept under pressure must be tested every 10 years.
  - (iii) The test pressure shall not be less than 1.5 times the working pressure or 2 N/mm<sup>2</sup> if the working pressure is unknown.

(To be continued)

#### NOTES:

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- (2) CO<sub>2</sub>
    - (i) The charge must be checked every 12 months and replaced at 5-year intervals.
    - (ii) Containers must be hydrostatically tested every 5 years.
    - (iii) The test pressure shall not be less than 25 N/mm<sup>2</sup>.
  - (3) Halon and Powder with shell kept under pressure
    - (i) The charge must be replaced every 2 years.
    - (ii) Containers must be hydrostatically tested every 5 years.
    - (iii) The test pressure shall not be less 1.5 times the working pressure or 2 N/mm<sup>2</sup> if the working pressure is unknown.
  - (4) Powder with shell not kept under pressure
    - (i) The charge must be checked every 12 months and replaced at 5-year intervals.
    - (ii) Containers must be hydrostatically tested every 10 years.
    - (iii) The test pressure shall not be less than 1.5 times the working pressure or 2 N/mm<sup>2</sup> if the working pressure is unknown.
4. Air cylinders for breathing apparatus
- (1) Servicing
    - (i) The cylinders must be hydrostatically tested every 5 years. The test pressure shall not be less than 1.5 times the working pressure.

For any questions about the above, please contact:

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