

arrangements shall be made to ensure the continuation of the output of water by the automatic starting of a fire pump; and

(d) Every machinery space of category A shall be provided with at least 1 fire hydrant.

(3) In every ship of Class III of less than 45m in length, the arrangement of fire-main and water-service pipes and the number and position of fire hydrants, hoses, and nozzles shall be such that:

(a) At least 1 jet of water having a throw of 6m may reach any part of the ship normally accessible to passengers or crew while the ship is being navigated and any store room and any part of any cargo space when empty; and

(b) In accommodation spaces, service spaces, and machinery spaces, the requirements of paragraph (a) of this subclause can be complied with when all watertight doors are closed; and

(c) Every machinery space of category A shall be provided with 1 fire hydrant.

(4) Every ship of Class III shall be provided with at least 1 hose and 1 dual-purpose nozzle for every hydrant fitted in the ship, but in any event not less than 2 hoses and 2 nozzles.

(5) Every ship of Class III of 45m in length or over shall be provided with water-fog applicators according to the following scale:

(a) One in every machinery space of Category A; and

(b) One for each pair of fire crew outfits.

**6. Portable fire extinguishers in accommodation and service spaces**—Every ship of Class III shall be provided with at least 1 portable fire extinguisher in each of the passenger spaces above the bulkhead deck, and with at least 2 such extinguishers in each of the crew spaces and of the passenger spaces below that deck. At least 1 portable fire extinguisher and 1 fire blanket shall be available for use in any galley. At least 1 portable fire extinguisher shall be provided in each control station.

**7. Machinery spaces of Category A containing oil fired boilers or oil burning equipment**—(1) In every ship of Class III of 24m in length or over there shall be provided for the protection of any machinery space of Category A containing any oil fired boilers or oil fuel units:

(a) One of the following fixed fire extinguishing systems:

(i) A pressure water-spraying system complying with the requirements of the Performance Standard referred to in clause 22 of the General Code.

(ii) A fire-smothering gas system complying with the requirements of the Performance Standard referred to in clause 24 of the General Code.

(iii) A high-expansion foam fire-extinguishing system complying with the requirements of the Performance Standard referred to in clause 25 of the General Code;

and, if the engine and boiler rooms are not entirely separate, or if fuel oil can drain from the boiler room into the engine room, the combined engine and boiler room shall for the purpose of this paragraph be regarded as a single space.

(b) In each boiler room one or more foam fire extinguishers, each of at least 45 litres capacity, or carbon-dioxide fire extinguishers, each of at least 16kg capacity. The extinguishers shall be sited so as to be readily accessible in the event of fire, and they shall be sufficient in number to enable foam or carbon dioxide to be directed on to any part of the boiler room or spaces containing any part of the oil-fuel installation;

(c) In each firing space and in each space which contains any part of any oil-fuel installation, at least 2 portable fire extinguishers;

(d) In each firing space, a receptacle containing at least 250 litres of sand or other dry material suitable for quenching oil

fires, together with a scoop for its distribution, or, alternatively, an additional portable fire extinguisher.

(2) In every ship of Class III of less than 24m in length, there shall be provided for the protection of any space containing any oil-fired boiler, oil fuel settling tank, or oil-fuel unit:

(a) At least 1 foam fire extinguisher of at least 45 litres capacity or one carbon-dioxide extinguisher of at least 16 kg capacity. The extinguisher shall be sited so as to be readily accessible in the event of fire;

(b) In each firing space and in each space which contains any part of any oil-fuel installation, at least 2 portable fire extinguishers;

(c) In each firing space, a receptacle containing at least 50 litres of sand or other dry material suitable for quenching oil fires, together with a scoop for its distribution, or, alternatively, an additional portable fire extinguisher.

(3) If an auxiliary oil-fired boiler, oil-fuel settling tank, or oil-fuel unit is fitted in a space occupied by propelling or auxiliary machinery of internal-combustion type, the fire appliances required by subclauses (1) and (2) of this clause shall be provided in addition to any fire appliances required clauses 8 and 9 of this code.

Provided that if the largest single area over which oil fuel may spread in the event of a leakage is less than 9m<sup>2</sup>, 1 foam fire extinguisher of at least 135 litres capacity or a carbon-dioxide fire extinguisher of at least 45 kg capacity may be provided instead of the provisions of subclauses (1)(a) and (1)(b) of this clause.

**8. Machinery spaces of Category A containing internal combustion type machinery**—(1) In every ship of Class III there shall be provided for the protection of every machinery space of Category A containing internal-combustion type machinery

(a) Any one of the following fixed fire-extinguishing systems:

(i) A pressure water-spraying system complying with the requirements of the Performance Standard referred to in clause 22 of the General Code; or

(ii) A fire smothering gas system complying with the requirements of the Performance Standard referred to in clause 24 of the General Code; or

(iii) A high expansion foam fire-extinguishing system complying with the requirements of the Performance Standard referred to in clause 25 of the General Code;

Provided that a fixed installation shall not be required in any ship of less than 24m in length.

(b) 1 foam fire extinguisher of not less than 45 litres capacity or a carbon-dioxide fire extinguisher of not less than 16 kg capacity;

Provided that such an extinguisher shall not be required in any machinery space containing only auxiliary machinery having an aggregate power of less than 375 kW;

(c) Sufficient portable fire extinguishers so located that 1 portable extinguisher is not more than 10m walking distance from any point in the space;

Provided that not less than 2 such extinguishers shall be required in any space containing main propulsion machinery, and not less than 1 such extinguisher shall be required in any space containing only auxiliary machinery.

(2) In any ship of Class III of less than 24m in length, there may be provided, instead of the extinguishers required by subclause (1) (b) and (c) of this clause, not less than 5 portable extinguishers.

**9. Machinery spaces containing steam engines**—In every ship of Class III there shall be provided for the protection of every space containing steam turbines or enclosed pressure-lubricated steam engines used for main propulsion or auxiliary purposes: