

SC30
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Fire-extinguishing arrangements in machinery spaces

(Interpretation of Chapter II-2, Regulation 10.5.1 and 10.5.2)

Number of systems, appliances and extinguishers
required by Reg. II-2/10.5.1 & 10.5.2
(MSC/Circ. 1120)

Systems, appliances & extinguishers Category A machinery spaces	Fixed fire-extinguishing system	Portable foam applicator*1	Portable foam extinguishers	Add'l portable foam extinguishers	135 l foam extinguisher	45 l foam extinguishers*2	Sand boxes*3
SOLAS paragraph	10.5.1.1 10.5.2.1	10.5.1.2.1 10.5.2.2.1	10.5.1.2.2	10.5.2.2.2	10.5.1.2.2	10.5.2.2.2	10.5.1.2.3
Boiler room containing:							
Oil-fired boilers	1	1	2N	NA	1*4	-	N
Oil-fired boilers and oil fuel units	1	1	2N + 2	NA	1*4	-	N
Engine room containing:							
Oil fuel units only	1	-	2	NA	-	-	-
Internal combustion machinery	1	1	x		-	y	-
Internal combustion machinery and oil fuel units	1	1	x		-	y	-
Combined engine/boiler room containing:							
Internal combustion machinery, oil fired boilers and oil fuel units	1	1	(2N + 2) or x whichever is greater		1*4	y*5	N
<p><i>N = number of firing spaces.</i> <i>"2N" means that two extinguishers are to be located in each firing space.</i> <i>x = sufficient number, minimum two in each space, so located that there are at least one portable fire extinguisher within 10 m walking distance from any point.</i> <i>y = sufficient number to enable foam to be directed onto any part of the fuel and lubricating oil pressure systems, gearing and other fire hazards.</i></p>							

Notes:

- *1. May be located at outside of the entrance to the room.
- *2. May be arranged outside of the space concerned for smaller spaces of cargo ships.
- *3. The amount of sand is to be at least 0.1 m³. A shovel is to be provided. Sand boxes may be substituted by approved portable fire extinguishers.
- *4. Not required for such spaces in cargo ships wherein all boilers contained therein are for domestic services and are less than 175 kW.
- *5. In case of machinery spaces containing both boilers and internal combustion engines (case not explicitly considered in Reg. 10.5) Reg. 10.5.1 and 10.5.2 apply, with the exception that one of the foam fire-extinguishers of at least 45 l capacity or equivalent (required by Reg. 10.5.2.2.2) may be omitted on the condition that the 135 l extinguisher (required by Reg. 10.5.1.2.2) can protect efficiently and readily the area covered by the 45 l extinguisher.
- *6. Oil fired machinery other than boilers such as fired inert gas generators, incinerators and waste disposal units are to be considered the same as boilers insofar as the required number and type of fire fighting appliances are concerned.

Note: Changes introduced in Rev.1 are to be implemented by IACS Members and Associates from 1 January 2001.

