





General emergency alarm

"abandon ship!"

Seven short blasts followed by one long blast.



Fire prevention equipment,



fire *detection* equipment







must regularly be checked and tested.



If you cannot extinguish the fire on your own in two minutes, you must

. raise the fire alarm



(all passengers and crew and, if necessary, shore based stations and vessels in the *vicinity*, must be *alerted*.) . try to *control* the fire;



. find out what is burning by the colour and odour of the smoke;

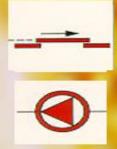
 take *precautions* against *toxic* smoke; (wind from abeam will reduce risk of *suffocation*);
 check the cargo plan for any dangerous goods.

fire fighting

ACTIONS:

. Shut off any ventilation . shut off any ignition source . close all the *fire-retarding* doors . start the fire extinguishing pumps . extinguish the fire . keep adjacent spaces wet . prepare first aid equipment . hand out breathing equipment.







Symbols for fire control plan







PUSH-BUTTON FOR FIRE-ALARM



FIRE AXE



HORN FOR FIRE ALARM



SPACE PROTECTED BY AUTOMATIC FIRE ALARM



FIRE-ALARM BELL

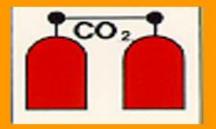


SPACE PROTECTED BY CO2









CO2 RELEASE STATION







HEAT DETECTOR



FOAM NOZZLE



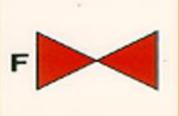
HALON HORN



SPACE PROTECTED BY FOAM



FOAM INSTALLATION







FIRE PUMP



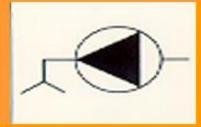
WATER GUN (MONITOR)



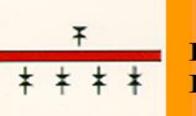
SPACE PROTECTED BY DRENCHING SYSTEM



WHEELED FIRE EXTINGUISHER



BILGE PUMP



DRENCHING INSTALLATION



EMERGENCY BILGE PUMP



REMOTE CONTROLLED PUMPS OR EMERGENCY SWITCHES



VALVES FOR DRENCHING SYSTEM



REMOTE CONTROLLED SKYLIGHTS



FIRE STATION



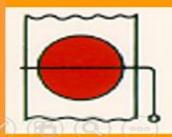
REMOTE CONTROLLED FUEL/LUBE OIL VALVES



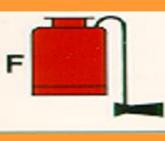
SMOKE DETECTOR



CONTROL STATION



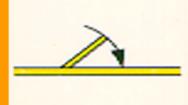
FIRE DEMPER IN VENT DUCT



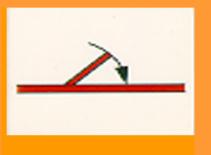
PORTABLE FOAM APPLICATOR



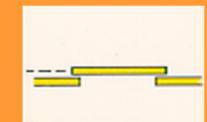
A-CLASS FIRE DOOR



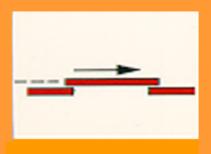
B-CLASS SELF CLOSING FIRE DOOR



A-CLASS SELF-CLOSING FIRE DOOR



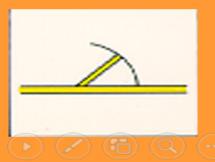
B-CLASS SLIDING FIRE DOOR



SLIDING A-CLASS SELF-CLOSING FIRE DOOR



GAS DETECTOR



B-CLASS FIRE DOOR



FLAME DETECTOR

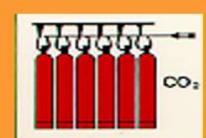


FIRE ALARM



s, s

SPRINKLER INSTALLATION



CO2 BATTERY



SPACE PROTECTED BY SPRINKLER INSTALLATION



POWDER INSTALLATION



SPRINKLER HORN



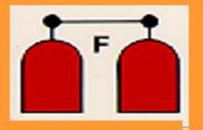
POWDER HOSE AND HANDGUN



POWDER MONITOR (GUN)



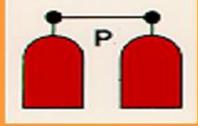
CLOSING APPLIANCE (EXTERIOR INLET/ OUTLET VENTILATION)



FOAM RELEASE STATION



REMOTE VENTILATION SHUT-OFF



POWDER RELEASE STATION



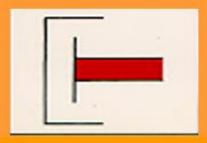
MAIN VERTICAL ZONE



FIRE MAIN WITH FIRE VALVES



HOSE BOX WITH SPRAY/JET FIRE NOZZLE



SHORE CONNECTION



LOCKER WITH ADDITIONAL BREATHING APPARATUS



FIRE PUMP



LOCKER WITH ADDITIONAL PROTECTIVE CLOTHING



WATER FOG APPLICATOR



PRIMARY ESCAPE

SECONDARY ESCAPE



LOCKER WITH FIREMAN'S OUTFIT





A-CLASS DIVISION



EMERGENCY GENERATOR



INERT GAS INSTALLATION



EMERGENCY SWITCHBOARD



HIGH EXPANSION FOAM SUPPLY-TANK





CO2/NITROGEN BULK INSTALLATION



Abandon ship!

If the fire is *massive* and *advanced*, and cannot be extinguished, the ship must be *abandoned*.

ROLL CALL

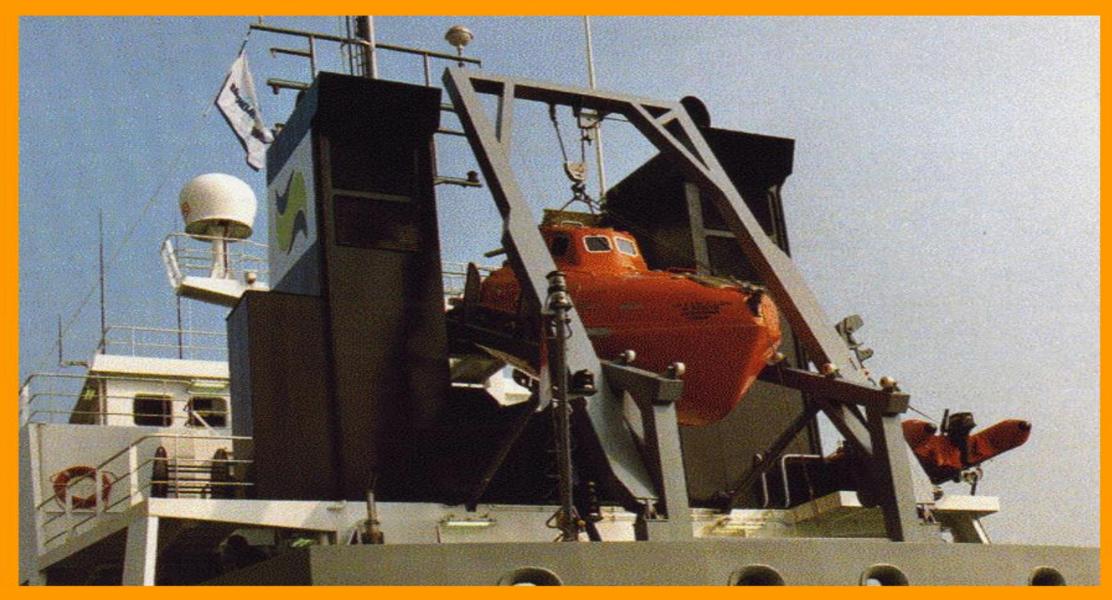
At the assembly station (muster station) all the names of the persons on board must be called out to see if anyone is missing.



Lifeboat and davit



Free-fall davit





PERSON OVER BOARD

When a person has fallen overboard, you must . call out "MAN (OR WOMAN) OVER BOARD!" . throw a lifebuoy into the water

. keep your eyes on the person in the water

. indicate to others the person's position.







Symbols relating to life-saving appliances and arrangements.

The safety officer is responsible for the maintenance of all the *life-boats, rafts, M.O.B. boat, life buoys, life belts, flares* and *rockets* and the *emergency transmitter.*























RELEASE GRIPES FROM GRAVITY OR LUFFING DAVIT.



LOWER LIFEBOAT TO WATER.



LOWER LIFERAFT TO WATER.



LOWER RESCUE BOAT TO WATER.



SECURE HATCHES.



FASTEN SEAT BELTS.



START WATER-SPRAY.



START ENGINE.







RECOMMENDED SYMBOLS INDICATING THE LOCATION OF:

emergency equipment, e.g.



assembly stations (muster stations), e.g.

and escapes, e.g.









LIFE-BOAT



DAVIT-LAUNCHED LIFE-RAFT

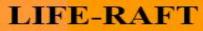


RESCUE BOAT



LIFE-BUOY WITH LIFELINE







LIFE-BUOY WITH LIGHT



LIFE-BUOY WITH LIGHT AND SMOKE



RADAR TRANSPONDER



LIFE-JACKET



SURVIVAL CRAFT DISTRESS SIGNAL





MUSTER STATION (OR: ASSEMBLY STATION)



EMBARKATION LADDER



EMERGENCY POSITION INDICATING RADIO BEACON



EVACUATION SITE



EMERGENCY EXIT



IMMERSION SUIT



EXIT



SURVIVAL CRAFT PORTABLE RADIO



ROCKET PARACHUTE FLARES



LINE-THROWING APPLIANCE





Emergency response in case of spill or leak:

- . evacuate the area
- . prevent exposure to skin and eyes
- . use a breathing apparatus 🜘
- . use a waterspray to reduce the *vapour*
- . do not smoke; do not use *flares* or open flames
- shut off any source of ignition
 stop leakage; let leakage evaporate; scoop away the remainder



Emergency response in case of a fire:

. SMALL FIRE:

use dry chemical or carbon dioxide ^{CO2}

. MASSIVE OR ADVANCED FIRE:



use water spray, *hose* spray or *monitor-nozzles* to cool the area; evacuate the area. **Emergency response in case of exposure to dangerous goods**

- CALL A PHYSICIAN AND PRACTISE FIRST AID: . carefully remove *contaminated* clothes
- . <u>eyes:</u> *flush* with *luke-warm*, low pressure running water for at least 15 minutes
- . skin: in case of *frost-bite*, thaw frosted parts

DANGEROUS GOODS LABELS





Orange coloured labels

Indicate dangerous goods that must be separated from *flammable liquids* by an intermediate space or on deck by at least 12 metres.



Red co oured abes Indicate dangerous goods that must be separated from flammable solids, spontaneously combustible agents or agents that are dangerous when wet by a longitudinal intermediate space or on deck by at least 24 metres. $(\Box) (\mathbf{Q}) (\cdots)$

Indicate dangerous goods that must be stored at a safe distance from explosive goods.





Yellow coloured labels

Indicate dangerous goods that may not be stored near *flammable gas*, *non-flammable compressed gas*

or *toxic gas*.





explosive



flammable



toxic



oxidizing agent



harmful or irritating



corrosive



MARINE POLLUTANT





non flammable compressed gas



flammable solid



spontaneously combustible

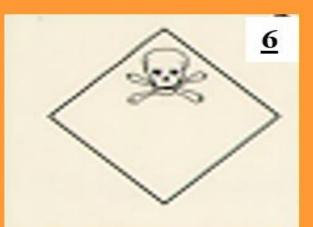


flammable liquid or gas



dangerous when wet



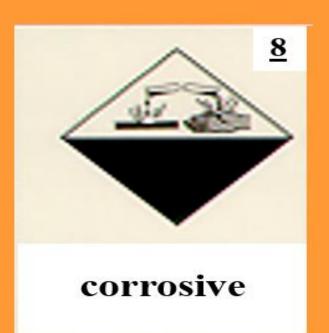


toxic agent



infectuous substance (bio-hazard)







miscellaneous dangerous goods and articles