



Fire Control Plan

- Displayed on the bridge and at each accommodation entrance.
- **Shows location of detectors, alarms, extinguishers, hydrants, and escape routes.**
- Copy kept in a watertight enclosure outside accommodation for shore use.

Fire Detection and Alarm System

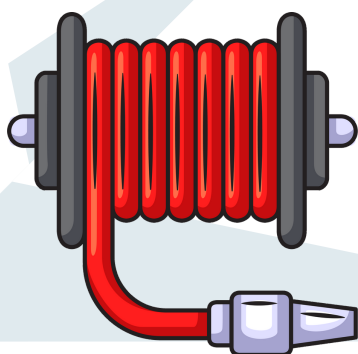
- Required on all SOLAS ships with enclosed accommodation.
- Provides audible and visual alarms in all spaces.
- **Sensors include smoke, heat, and flame detectors.**
- **Control panel located on the bridge or fire control station.**

Fire Main System

- Consists of fire pumps, fire main, hydrants, hoses, and nozzles.
- **At least two independent pumps (cargo ships); three for passenger ships.**
- **Must maintain two jets of water with adequate pressure simultaneously.**
- Nozzles to be dual-purpose (jet/spray) and standard connection type.

Portable Fire Extinguishers

- Must be readily accessible and distributed throughout all spaces.
- Types:
 - **Water/Foam – Class A fires**
 - **CO₂ – Class B/E (electrical) fires**
 - **Dry Powder – Class B/C (fuel/gas) fires**
- At least one per 250 m² of deck area, plus one at each control position.
- Must be inspected **monthly and pressure-tested** per FSS Code requirements.



Fixed Fire-Extinguishing Systems

- Machinery spaces: CO₂, foam, or water-mist system.
- Cargo holds/tankers: **Fixed foam, dry chemical, or inert gas system.**
- Galleys: Fixed wet chemical or foam over fryers and cooking ranges.
- **Systems must be remotely operable from outside the protected space.**

Fireman's Outfits & Breathing Apparatus

- **Minimum two complete sets for ships <1000 GT.**
- 4–6 sets on larger vessels depending on tonnage.
- Each includes:
 - Fire-resistant clothing (helmet, gloves, boots, visor)
 - Lifeline and safety harness
 - Self-Contained Breathing Apparatus (SCBA) (min. 30 min duration)
 - Fire axe or approved tool
- **At least two spare air cylinders per SCBA.**

Emergency Fire Pump

- **Must be independent of main engines and power supply.**
- Located outside the main machinery space.
- **Operable with 10° list and 10° trim.**
- Supplies fire main system during main pump failure.

Ventilation and Fire Dampers

- All ventilation ducts fitted with fire dampers and remote closures.
- Clearly marked and numbered fire flaps for easy identification.
- Means to stop fans and close fuel/air inlets remotely in an emergency.

Fire Doors and Structural Fire Protection

- A-Class and B-Class divisions prevent spread of fire and smoke.
- Self-closing fire doors, capable of remote operation.
- A-60 insulation between accommodation and machinery spaces.
- **Escape routes illuminated and marked in accordance with LSA/FTP standards.**

Fixed Water Spray / Sprinkler Systems

- **Installed in accommodation spaces and corridors.**
- Automatic activation with dedicated water supply and alarms.