



**MARITIME
PASSIVE
SAFETY**

The Passive safety concept wills to mitigate damage after an accident.

The Maritime Passive Safety Association aims to develop and promote technical passive solutions to mitigate the environmental consequences of an accident at sea.

Different types of equipment exist:

- The FOR (Fast Oil Recovery) Systems, to standardize and facilitate the recovery of oil or other harmful substances from the ship's cargo and bunker tanks,
- The leak preventer devices, to avoid the oil leaks from the venting equipment of a sunken ship,
- The magnetic patches, for emergency minor hull temporary repair.

Today, these equipments, standardizing, accelerating and facilitating the salvage operations, show the new mindset of the ship design: Anticipating and preparing the ship for the accident at sea.

The Arctic environment, due to the low air and sea temperatures, increases the risks of accident:

- Stability problems
- Rupture of deck equipment and piping
- Blocking of air intakes, air ventilation and pressure release
- Fuel pumping difficulties
- Malfunction of valves and fluid systems
- Reduced maneuverability
- Hull penetration or structure failure due to impact with ice or ice under pressure

Furthermore, due to the remoteness of the polar navigational areas, any salvage emergency will suffer from insufficient infrastructure and spill preparedness. The presence of ice will drastically reduce the performance of spill containment and recovery equipments.

The Maritime Passive Safety equipments are thus particularly relevant in the polar areas to faster salvage interventions and mitigate the consequences should an accident happen.

These arguments led the IMO to consider making these equipment mandatory in the Polar Code, ruling navigation in the Polar waters.

To emphasize a new segment which has to be considered, members of the MPS Association would like to bring their expertise to the following topics:

- 2.1 Inland Modern Fleet (Preserving the Environment)
- 4.1.1 Human element factor in Shipping Safety (Emergency Procedures)
- 4.1.2 Safety of ships in Arctic Conditions

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