

Guidance to SIRE 2.0 Key Points

Ref: 041

5.2.4 Machinery space fixed carbon dioxide fire extinguishing system (Observed in Trial Inspection) / TMSA 3.1.4

5.2.4. Were the Master and officers familiar with the location, purpose and operation of the vessel's fixed carbon dioxide fire extinguishing system, and was the equipment in good working order and available for immediate use, with the release procedure and operating instructions displayed at the control stations?

Short Question Text

Machinery space fixed carbon dioxide fire extinguishing system

Vessel Types

Oil, Chemical, LPG, LNG

ROVIQ Sequence

Aft Mooring Deck, Emergency Headquarters.

Publications

IMO: ISM Code

IMO SOLAS

IMO: FSS Code

IMO MSC.1/Circ.1318 Guidelines for the maintenance and inspection of fixed carbon dioxide fire-extinguishing systems.

OCIMF/ICS: International Safety Guide for Oil Tankers and Terminals. Sixth Edition.

Objective

To ensure that crewmembers can respond effectively to a fire situation in accordance with the shipboard emergency plan.



 Following Positive Observations were issued in trial inspection.
Exceeded normal expectation. 2nd officer interviewed regarding the CO2 system and answered all questions correctly (equinor).

 Human



Potential Grounds for a Negative Observation

- There were no safety procedures for entering the CO₂ space posted at each entrance door.
- The accompanying officer was unfamiliar with the safety precautions for entering the CO₂ space.
- The CO₂ space or release cabinets were locked but there were no keys provided.
- The machinery space carbon dioxide fire extinguishing system release procedure, operating instructions and warning notices were not posted at the release station.
- There was no maintenance plan for the vessel's fire protection systems and fire-fighting systems and appliances available.
- The maintenance plan for the vessel's fire protection systems and fire-fighting systems and appliances did not include the vessel's fixed carbon dioxide fire extinguishing system or all the required inspections, tests and maintenance.
- Records of inspections, tests and maintenance carried out were incomplete.
- The accompanying officer was not familiar with the purpose and operation of the vessel's fixed carbon dioxide fire extinguishing system.
- The accompanying officer was unfamiliar with the maintenance plan for the vessel's fire protection systems and fire-fighting systems and appliances.
- Inspection of the vessel's fixed carbon dioxide fire extinguishing system indicated that actions recorded in the maintenance plan had not taken place.
- The machinery space carbon dioxide fixed fire extinguishing system was defective in any respect.
- The machinery space carbon dioxide fixed fire extinguishing system was not ready for immediate use for any reason, such as, branch pipes blanked, nozzles or control levers inhibited, etc.

 Process
 Human
 Hardware

 Process

 Human

 Process

 Hardware