

Guidance to SIRE 2.0 Key Points



Ref: 024

10.6.1 LNG fuel tank water-spray system (NEW) / TMSA 3.1.4

10.6.1. Were the Master and officers familiar with the location, purpose and operation of the LNG fuel tank water-spray system for cooling and fire prevention on deck, and was the equipment in good working order, regularly inspected, tested and maintained?

Short Question Text

LNG fuel tank water-spray system

Vessel Types

Oil, Chemical, LPG

ROVIQ Sequence

Main Deck

Publications

IMO: ISM Code

IMO: MSC.1/Circ.1432 Revised guidelines for the maintenance and inspection of fire protection systems and appliances.

IMO: IGF Code



ROTATIONAL

Inspection questions focused on preventing/mitigating risks that could indirectly lead to a catastrophic risk event or directly lead to a lower risk event.



Hardware



Binary



Process



Graduated



Human



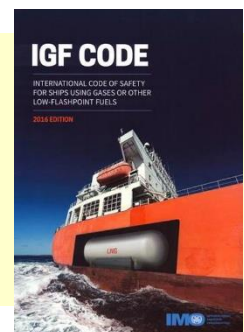
Graduated

Objective

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



Please refer "IGF Code (International Code of Safety for Ships using Gases or other Low-flashpoint Fuels)" for more information.



Potential Grounds for a Negative Observation

- The operating instructions for the system were not posted at the control station.
- The accompanying officer was not familiar with the location, purpose and operation of the vessel's water-spray system for cooling and fire prevention on deck.
- Access to the system controls was obstructed.
- The system valves and controls were not properly marked or set.
- Stop valves or isolating valves did not operate freely.
- The stop valves or isolating valves were not clearly marked.
- There was evidence of clogged or overpainted water spray nozzles.
- There was hard rust, deterioration or temporary repairs to the system pipework.
- 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 water-spray system for cooling and fire prevention on deck or, all the required inspections, tests and maintenance.
- Records of inspections, tests and maintenance carried out were incomplete.
- 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 water-spray system for cooling and fire prevention on deck indicated that actions recorded in the maintenance plan had not in fact taken place.
- The water-spray system for cooling and fire prevention on deck was defective in any respect.



Process



Human



Hardware



Process



Human



Hardware