
Fire safety, ISM-related PSC detainable deficiencies

March, 2024



KOREAN REGISTER

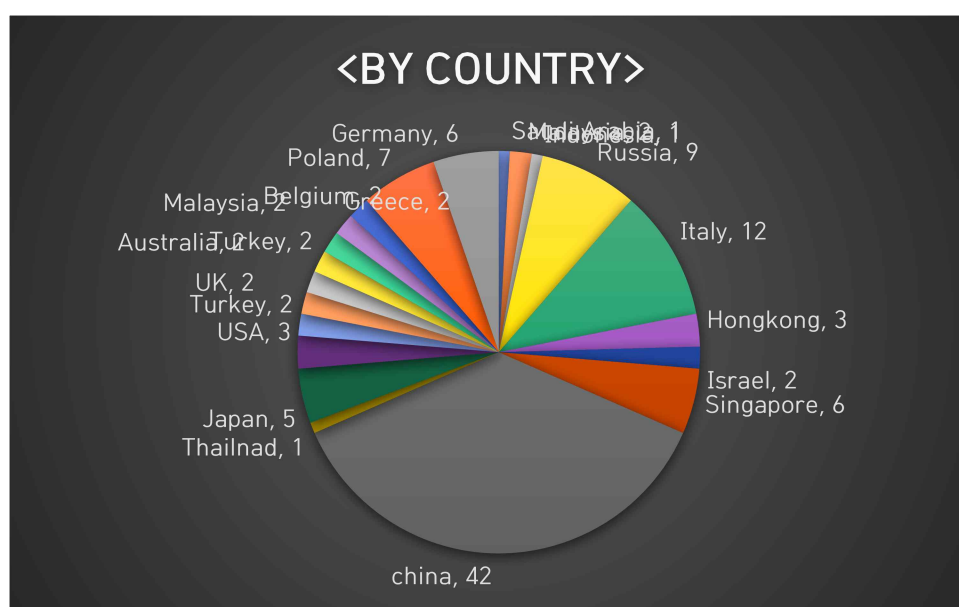
Survey Team

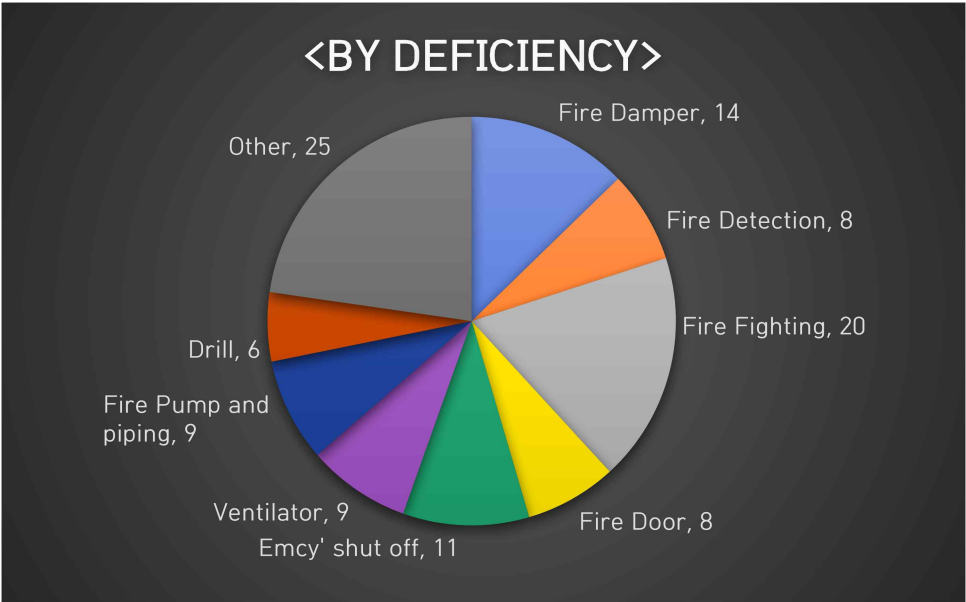
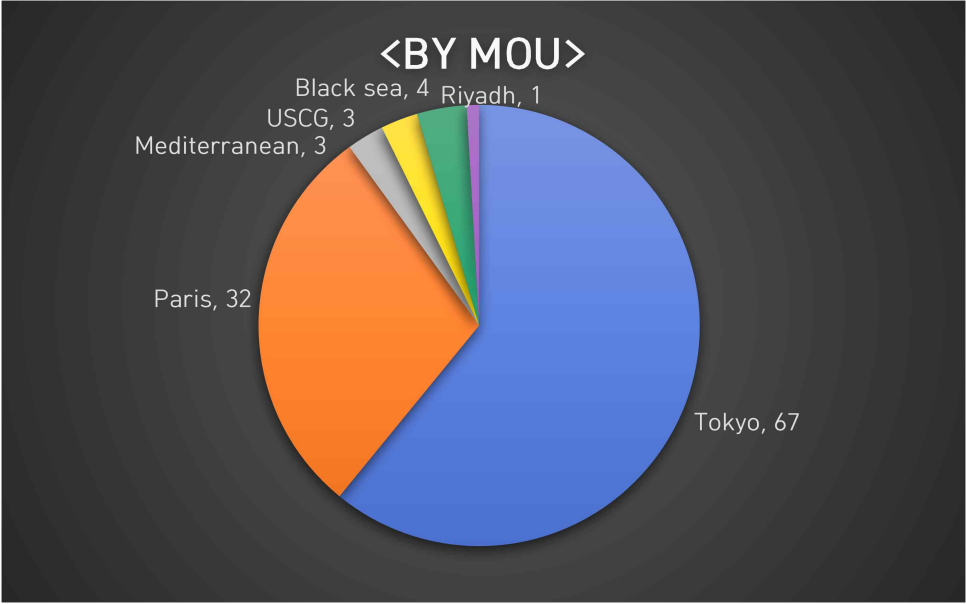
KR Statistics on fire safety, ISM-related detainable deficiencies

1 TOP 5 PSC detainable deficiencies 2022/2023

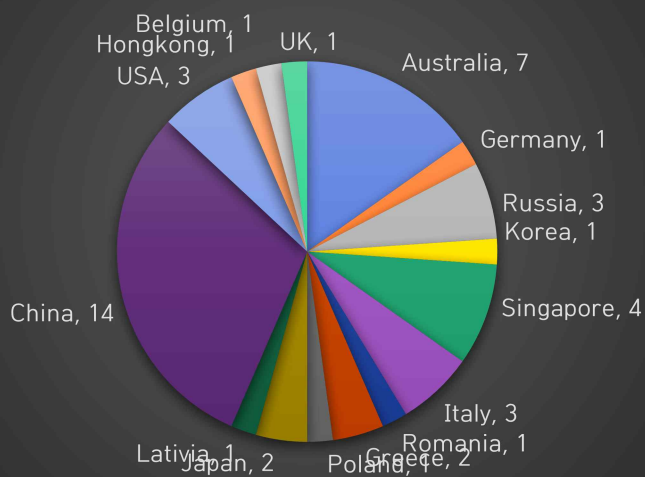
2022		2023	
Category	Number	Category	Number
ISM	36	Fire Safety	110
Fire Safety	35	ISM	45
Life-saving Appliance	27	Life-saving Appliance	42
Pollution Prevention	18	Pollution Prevention	30
Emergency System	16	Safety of Navigation	28

2 Fire safety-related PSC detainable deficiencies 2023

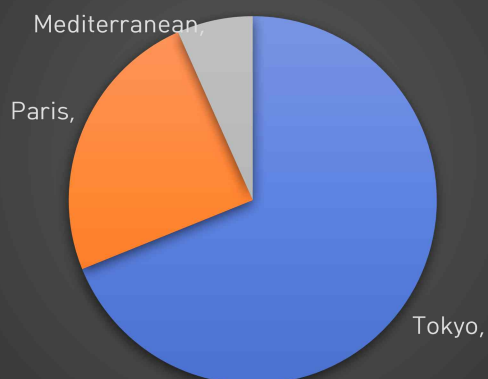




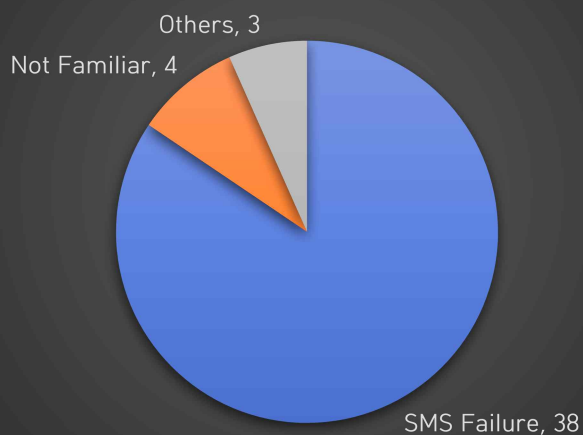
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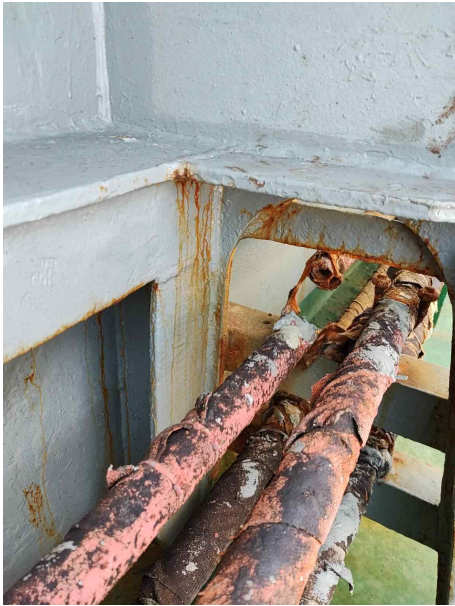
Notable deficiencies related to fire safety, ISM

1 Notable deficiencies related to Fire safety

1. Fire extinguishing equipment/installation


Photo	Deficiency	Cause (Preventive measure)
	Em'cy fire pump not pressurized sea water sufficiently.	Poor Maintenance - pump - leaking flange Insufficient pressure (Periodical inspection and test)
	Paint store fixed fire fighting system – nozzle missing	Not carrying out periodical inspection and poor maintenance. During periodical survey, attending surveyor comment the missing nozzle, it has not improved. (Periodical inspection and maintenance)

2. On deck Fire Fighting System – Piping

Photo	Deficiency	Cause (Preventive measure)
	<p>1. On deck fire line leaking due to heavy corrosion</p> <p>2. Crew identified that deficiencies, but they performed only inappropriate temporary repairs.</p>	<p>Poor Maintenance Due to heavy corrosion, sea water leaking from the on deck fire line (Periodical inspection and test)</p> <p>Inappropriate temporary repairs (Not following procedures of SMS)</p>
	<p>On deck CO2 line partially fractured</p>	<p>Poor Maintenance Due to heavy corrosion, on deck cargo hold CO2 line was partially fractured. (Periodical inspection and test)</p>




3. Ventilator

Photo	Deficiency	Cause (Preventive measure)
	<ol style="list-style-type: none"> 1. Ventilators have holes 2. Ventilator disk was heavily corroded 3. Crew recognized the deficiencies, but they performed only inappropriate temporary repairs. (taping and painting) 	<p>Poor Maintenance Due to heavy corrosion, ventilator has several holes (Periodical inspection and test)</p> <p>Inappropriate temporary repairs (Not following procedures of SMS)</p>
	<p>Ventilator can not fully closed (sealing disk do not fully go down)</p>	<p>Poor Maintenance Due to rust and dust, ventilator disk was not fully closed(go down) (Periodical inspection and test)</p>

Photo	Deficiency	Cause (Preventive measure)
	<p>Ventilator cover was heavily corroded and can not fully closed</p>	<p>Poor Maintenance Due to corrosion and distorsion, hatch cover side - ventilator cover can not fully closed (Periodical inspection and test)</p>

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Notable deficiencies related to ISM

Photo	Deficiency	Cause (Preventive measure)
	Lack of corrective actions taken on deficiency according to SMS	Unfamiliar with SMS and it's procedure to deal with NC (Appropriate corrective action was not taken)
	Crew were not familiar with fire man outfit. Missing transceiver	Unfamiliar with Drill and wearing outfits (Periodical drill)
	ISM implementation deficiency originated from lots of defective items. (maintenance of equipments or machineries)	Failure of SMS implementation. (Periodical training and drill, maintenance)

3 Root causes and proposals

☐ Root causes

- o Insufficient inspection/test/maintenance on board a ship
- o NOT following the relevant procedures
- o NOT reporting to company and/or class on important repairs
- o NOT familiar with PSC matters

☐ Proposals

- o (Company) Monitoring the fleet thoroughly and visiting ships periodically
- o (Company) Providing crew members with periodical training
- o (Company) Supporting personnel/spare parts in a timely manner
- o (Ship) Doing periodical inspection/test/maintenance
- o (Ship) Implementing periodical training for crew members
- o (Ship) Being familiar with SMS
- o (Class) Conducting more thorough survey with great interest in major PSC items(especially for on-deck items)

Recent PSC detainable deficiencies mostly come from disobeying the Shipboard Management System(SMS) based on the ISM Code. It is worth noticing that failure on SMS implementation may result in a maritime accident, which leads to serious damage to a ship or even loss of life.