Mandatory shipboard equipment: help or hindrance?

‘It really freaks me out!’: What seafarers think of mandatory shipboard equipment

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In 2012, the Seafarers International Research Centre began a four-year study of seafarers’ views of mandatory shipboard equipment. We were concerned to get a detailed view of the way in which mandatory equipment was seen by seafarers and in doing so, we spent a considerable amount of time at sea on nine different ships. While on board we interviewed 152 crew members and supplemented this information with another 211 shore-based interviews. This perspective was enriched with 2,500 interviewer-administered questionnaires completed by seafarers in ports around the world. When the results were published, in 2016, they gave some cause for some concern.

While some equipment was regarded by seafarers as well-designed and fit for purpose, essential lifesaving equipment was viewed less favourably. In many cases seafarers expressed fears about lifeboats and a marked reluctance to engage in the drills and maintenance that are necessarily associated with their safe operation. At the same time, many seafarers believed that the liferafts, survival suits and lifejackets carried by many ships were poorly designed and not fully fit for purpose.

Bridge and engine room equipment

The research considered a range of bridge, engine room, and emergency response equipment carried by vessels as a requirement of SOLAS and MARPOL regulations. The findings suggested that there was a high degree of support among seafarers for the carriage of some mandatory equipment, including electronic chart display and information systems (ECDIS) and oily water separators (OWS). These were seen as serving a useful function on board if/when they were well-designed and maintained.

Although seafarers generally supported the use of OWS, many of them suggested that poor design and maintenance could lead to misuse. Where OWS filters were not regularly replaced, for example, seafarers found themselves under pressure to discharge oily wastes illegally. One seafarer explained:

‘The pressure [to bypass the OWS] is from the company because they don’t want to spend money sending the bilge water ashore, so they are forcing you to […] manage however you feel like because they never gave you the right thing. So […] you can see, some people do these things.’

Forty-three per cent of engineers said they could understand why seafarers sometimes used ‘magic pipes’ to discharge oily waste illegally and 23% of engineers stated that they had been present on a vessel when a magic pipe was in use. Reassuringly, many seafarers suggested that these practices were dying out as a result of improved OWS design and tougher regulation and enforcement.

Lifesaving equipment

Lifesaving equipment attracted the strongest criticism from serving seafarers. Many were fearful of using lifeboats in either drills or in real emergency situations. One seafarer related how he routinely evaded participation in lifeboat drills. He explained:

‘Now whenever I am asked to participate I talk to the bosun and tell him that I am not going to join the drill. It really freaks me out!’

Another described an incident:

‘There are two brothers. One chief mate and one AB […] and there was a mistake and it [the lifeboat] first released on the forward and it fell in the water […] Dead! [If] they ask me if I go to the lifeboat – No!’

Twenty-seven per cent of our questionnaire respondents stated that in a real emergency they believed that seafarers would be afraid of using their lifeboats. Such fears inevitably spilled over into training practices and 41% of respondents stated that they had sailed with captains who had not lowered their lifeboats because they were afraid of accidents. As one explained:

Even in ideal conditions, more than half of seafarers experience difficulty boarding liferafts
When you have this immersion suit it’s very hard to move. You cannot move easily. Even you cannot climb maybe to the liferaft. […] Better to have this five fingers. Yes, like a glove […] because when we climb, when we handle something needs to have five fingers. Because it is more difficult to have only two fingers […] Yes we have to change that system!

These issues have also been highlighted by accident investigation reports such as that into the loss of the Swanland off the North Wales coast (MAIB, 2011).

Overall, our research demonstrates that seafarers are supportive of the carriage, and use, of most mandatory shipboard equipment. Nevertheless, there are several areas in which design could be improved. In particular, the research emphasises the very urgent need for the design of lifesaving equipment to be reviewed and for related regulatory standards to be revised. In relation to davit-launched lifeboats this process is already underway. However, our findings suggest that more broad-reaching changes to the design of liferafts, freefall lifeboats and survival suits are needed urgently.

This summary is inevitably unable to convey the full complexity of the project findings. To explore these in further detail please access the report via the following link: http://www.sirc.cf.ac.uk/SIRC_Free_Online_Reports.aspx

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