

## Maintenance, maintenance, maintenance!!!

The following accident report is worth being distributed to our members as it was a result of poor maintenance. This material was publicly distributed by the Hellenic Maritime Institute of Technology as an uninformative newsletter for its members. The original publication can be found at:

<https://maritimecyprus.com/2018/09/18/unintentional-release-of-carbon-dioxide-from-fixed-fire-extinguishing-systems-on-ro-ro-vessels-eddystone-and-red-eagle/>

### Unintentional release of carbon dioxide from fixed fire-extinguishing systems on Ro-Ro vessels Eddystone and Red Eagle



On 8 June 2016, the roll on, roll off (Ro-Ro) vessel Eddystone experienced an unintentional release of carbon dioxide (CO<sub>2</sub>) from its fixed fire-extinguishing system while in the Red Sea. A similar incident took place on 17 July 2017 on board the Ro-Ro passenger ferry Red Eagle while on passage from the Isle of Wight to Southampton. In both cases, gas leaked into the CO<sub>2</sub> cylinder compartment, but was prevented from entering the engine room by the main distribution valve which remained closed. Fortunately, no one was harmed in either of these incidents. However, the unintended release of CO<sub>2</sub> from fire-extinguishing systems has caused 72 deaths and 145 injuries, mainly in the marine industry, between 1975 and 2000

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### SAFETY LESSONS

- the maintenance of the fire-extinguishing systems was inadequate
- the available guidance for the marine industry on the maintenance and inspection of CO2 fixed fire-extinguishing systems was insufficient

### RECOMMENDATION

Recommendations have been made to:

- the Maritime and Coastguard Agency (2018/123 and 2018/124) to ensure that all safety devices fitted to CO2fixed fire-extinguishing systems are maintained and surveyed appropriately; and, to seek clarification from the International Maritime Organization of the maximum permitted periodicity between hydrostatic testing of individual high pressure cylinders (MSC.1/Circ.1318)
- Det Norske Veritas – Germanischer Lloyd and Lloyd’s Register (2018/125), to raise with the International Association of Classification Societies the issue of the quality of service provided by approved service suppliers in the maintenance of CO2 fixed fire-extinguishing systems
- the owners of Red Eagle (2018/126), to review the design of the CO2 fire-extinguishing systems fitted to their vessels where the leakage of a single cylinder valve causes the entire system to discharge

**IF YOU WANT TO SEE THE FULL ACCIDENT REPORT CLICK AT THE BELOW LINK:**

[https://maritimecyprus.files.wordpress.com/2018/09/eddystone\\_and\\_red\\_eagle-co2-release.pdf](https://maritimecyprus.files.wordpress.com/2018/09/eddystone_and_red_eagle-co2-release.pdf)