# IMCA Safety Flash 04/17

IMCA

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These flashes summarise key safety matters and incidents, allowing wider dissemination of lessons learnt from them. The information below has been provided in good faith by members and should be reviewed individually by recipients, who will determine its relevance to their own operations.

The effectiveness of the IMCA safety flash system depends on receiving reports from members in order to pass on information and avoid repeat incidents. Please consider adding the IMCA secretariat (imca@imca-int.com) to your internal distribution list for safety alerts and/or manually submitting information on specific incidents you consider may be relevant. All information will be anonymised or sanitised, as appropriate.

A number of other organisations issue safety flashes and similar documents which may be of interest to IMCA members. Where these are particularly relevant, these may be summarised or highlighted here. Links to known relevant websites are provided at www.imca-int.com/links Additional links should be submitted to info@imca-int.com

Any actions, lessons learnt, recommendations and suggestions in IMCA safety flashes are generated by the submitting organisation. IMCA safety flashes provide, in good faith, safety information for the benefit of members and do not necessarily constitute IMCA guidance, nor represent the official view of the Association or its members.

## **Shipyard Incidents and Failure to Assess Risk**

The three incidents here all have failure to properly assess or identify risk as a causal factor. Two of the incidents involve accidents in shipyards involving vehicles. The first is highlighted in light of the very similar incident during 2016, which resulted in a fatality.

## 1 Crewman Struck and Injured by Forklift Truck

A member has reported an incident in which a person was struck by a shipyard forklift while returning to the vessel from the yard machine shop. The blow to the leg resulted in him spinning and falling across the forks, striking his right shoulder and hip and dislodging his hard hat and safety glasses. The operator stopped the machine as the person was falling across the forks. He exited the forklift to attend and see if there were any injuries. At that time, it was determined that there were no injuries sustained from the incident and the person returned to the vessel.

It was later noted that the injured person was not looking well. He was advised to proceed to the hospital for a precautionary check-up. Tests and X-rays did not reveal any broken bones or internal injuries. He nevertheless later started to develop pain in his shoulder and hip which had not subsided in the following weeks. After following up with his family doctor he was placed on restricted work.

This incident was captured on the shipyard's security camera. A request was made to obtain a video copy or time lapse screen shots. This was not permitted by the yard management. However, unlimited visual access was permitted to review the footage.



Forklift of the kind in use at time of incident



Showing drivers view from inside cab – blind spot



View with forks straight and vertical

View with forks tilted back during travel

Our members' investigation revealed the following:

- The forklift operator reported that:
  - he did not see the injured person because of blind spots due to the design equipment
  - the blind spots were larger on this model of forklift than on other models in use at the yard;
- The injured person stated that he did not see the forklift until the impact. This was apparent from review of the video footage which confirmed that there was no change in his direction, body movement or speed up to the time of impact;
- The forklift was approaching from a slight angle behind the injured person's immediate left which may have been out his peripheral vision and a contributory factor in the incident;
- The forklift made a slight adjustment of direction to the right due to a truck parked next to the main building. This may have put the injured person into the blind spot of the forklift;
- At the time of the incident the forklift was not carrying any load;
- It was not possible to tell from the video whether or not the speed of the forklift was a contributory factor;
- At the time of the incident all personal protective equipment (PPE) was being worn by the injured person as required, including "hi-viz" vest;
- The location of the incident was in an open section of the yard with good visibility all around. There were no objects, fixtures or buildings between the forklift operator and the injured person;
- There were no dedicated walkways around the shipyard with the exception of inside the machine shop.

Our member concluded that the **immediate causes** were:

- Incorrect use of machinery or equipment:
  - the forklift operator was aware that the equipment had blind spots and failed to monitor and check these;
- Failure to follow rules and regulations:
  - local rules required that crew members "must be aware of mobile machinery such as cranes, forklifts and manlifts"
  - there was no traffic management within the yard with regards to the travelling of mobile equipment.
     Workers were able to transit the yard at any angle in any direction leaving the equipment operator

vulnerable to an incident. CSA B335-15 states "All efforts shall be made to keep pedestrians separate from powered lift trucks."

"Basic" causes identified included:

- Routine, monotony, demand for uneventful vigilance:
  - the work of the injured person consisted of many visits to the yard workshop from the vessel; it was evident that complacency played a part in the incident. It would also be expected that the forklift operator would have been able to identify the injured person crossing the yard from the workshop;
- Inadequate identification and evaluation of loss exposures:
  - while this hazard has been identified in the workshop/machine shops where walkways are painted in place, it was not identified outside in the open yard;
- Inadequate consideration of human factors/ergonomics:
  - the design of the forklift cab did not allow for a clear wide angle view from the operator position. This was
    also mentioned by the operator during his first time operating the equipment.

Corrective actions taken (other than medical treatment and circulation of this incident):

- Shipyard to review CSA B335-15 Safety Standard for Lift Trucks Section 4.5.5.2 (Traffic Management) and adopt the recommendations made;
- Though it could not be determined that speed was a factor, limit the speed of the yard forklifts and other machinery to a maximum of 15km/hr;
- Recommend the shipyard release a bulletin highlighting the incident and inviting suggestions for improvement from their workforce.

Members may wish to review IMCA SEL 032/IMCA M 221 – Guidance on safety in shipyards.

Members may also wish to refer to the following incident:

• IMCA SF 11/16 – Incident 1 – Fatality – crew member struck by forklift during quayside operations.

# 2 Two Falls, One from A Telehandler In A Shipyard – Failure To Think Through Risks

The UK health and Safety Executive (UK HSE) has published two recent news alerts covering prosecutions of companies responsible for someone falling from height.

### Incident 1

Two companies were fined after a worker was killed when he fell from a telehandler in a shipyard. A 50-year-old self-employed contractor working on fabrication and installation of roller shutter doors on an extension to a slipway building in a shipyard. He was working at height with a co-worker on the telehandler when it came into contact with fencing. When the telehandler was released from the obstruction it caused the basket to jerk, throwing both operators from the basket. The contractor was not clipped onto the basket and fell to the ground sustaining fatal injuries.

The investigation found that the risks that could occur with this task had not been properly thought through or assessed by the two companies involved.

Please find the full press release here.

### Incident 2

A company with a brand name known throughout the UK was fined £2million after a worker was hospitalised following a fall. The incident occurred when a worker with six years' experience at this particular plant was cleaning

a mixing machine, a routine job he carried out every few weeks. He lost his footing and fell nearly 2 metres. He was hospitalised with a compression fracture in his spine.

Investigation revealed that the company routinely expected their workers to access the top of the mixing machines to clean them. In doing so, the workers were often unbalanced and would brace themselves to stop from falling. The workers were not adequately supervised and there had been no training on how the mixer needed to be cleaned at height. The company failed to control the risk of falls from height when carrying out this routine cleaning activity.

The HSE noted: "This case highlights how important it is for companies to fully assess the risks from work activities at height and to take appropriate action to prevent injury in the workplace. This should have been prevented, falls from height is one of the biggest killers in the workplace and even falls from fairly low levels can be extremely dangerous."

Please find the full press release here.