

Key Lessons

Dumper rolls into parked unmanned pickup

Date of Incident: 2016-07-18

Site: Back Lane Quarry, Aggregates

Country: United Kingdom

Main hazard/ Risk: Transport

Description of Event:

A Cat 775B dumper rolled off when parked and struck an unmanned pickup. The operator approached the load out bins and another dumper was already being loaded so he parked & went to the canteen / toilet, approximately 2 minutes later the unmanned dumper rolled approximately 46m hitting the parked unmanned site pickup outside the canteen / toilets building.

The dumper was parked on slight incline - maximum 2.6 degrees at vehicle & 1.4 degrees overall slope between initial park area & pickup, the operator had parked in what he considered was a flat safe area

After the incident the dumper was checked and the park brake had not been applied, the operator was distracted when he parked due to a change to the pedestrian route, although changes had been discussed at that morning's daily brief. Additional Information:

- The operator experienced & fully familiar with this dumper & its controls (D&A tested negative)
- The operator competency re-assessed on rigid dumpers 3 weeks earlier on the 22nd June
- The operator received toolbox talk on 8th July which included recent mobile plant incidents & the need for concentration when operating mobile plant
- The dumper well maintained with in-date brake test carried out on 9th June (Simret & fully laden park brake test)

Photographs:



Key Lessons after Incident Investigation:

Root Causes	Category	Corrective and Preventive Actions
Park brake not applied, operator distracted when parking by changes to pedestrian route	2. Human Factors	Make operators aware of worst case consequences of a lapse in concentration & the need for concentration to avoid complacency
Park brake does not automatically engage when ignition is turned off (unlike newer equipment)	1. Physical Conditions	Investigate feasibility of retro-fitting OEM or after market systems to auto apply park brake when ignition is switched off
Vehicle Chocking	3. Management System	Risk Based approach to vehicle chocking. Guidance document to be updated.

1. Physical Conditions Examples include: Controls, Visibility, Upset Conditions, Noise/Vibrations, Equipment Facility design, Warnings, Environment

2. Human Factors Examples include: Cognitive, Psycho-Behavioral, Physical/Mental Limitations, Perceptual, Self-imposed stress, Personnel

3. Management System Examples include: Training, Accountability, Communications, Planning & Evaluation, Rules and Procedures, Supervision, Incident Investigation

4. Culture, Perception and Beliefs Examples include: Risk Tolerance, Visible Leadership, Employee Engagement, Value for Safety, Norms, Drift, Goals

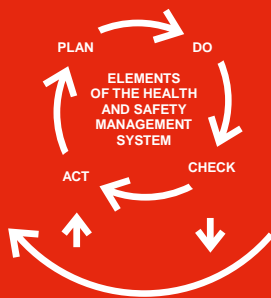
Key Lessons

Dumper rolls into parked unmanned site pickup



Communication Principles

- Determine a country wide process for distribution of this document, including appropriate corrective actions for all levels of the organization.
- Communication should include discussions in Team Meetings, Toolbox Talks, posting on Notification Boards, email distribution, and developing and sharing relevant action plans



Important Actions

- Perform a gap analysis based on the information in this document.
- Establish the action plan including objectives and processes necessary to ensure a similar incident will not occur at your sites.
- Implement the action plan, execute the process, close the gaps.
- Collect data to track implementation until completion