

Collison with Plant Serious Incident

Outline of Incident

This alert has been produced following a recent incident within the Group where an operative came into contact with moving plant resulting in a serious injury which could easily have been a fatality.

This operation involved a trained and experienced Banksman working in close proximity to a 5 tonne excavator within a restricted area, whilst undertaking a mass back fill operation to a basement.

The Banksman was controlling the dumpers accessing the area with fill via a ramp due to the restricted working area with a machine situated within the basement area carrying out the fill operation.

The machine, fitted with rear convex mirrors, was in the process of reversing when the Banksman fell to the rear, resulting in the right hand track coming into contact with his left leg, sustaining severe fractures and ligament damage, the IP's rehabilitation may take up to 18 months.

Despite being both experienced ground workers, the close proximity of interface between plant and the Banksman was inappropriately risk assessed.

Recommendation

The interface between personnel and plant is a **high risk activity** requiring careful planning and management.

A task specific risk assessment addressing the plant / people interface where Banksmen are used should be produced, this assessment must address the protection of site personnel as well as protection of Banksmen:

1. All Plant movements should be managed to avoid need for plant /personnel interface
 - Consideration given for safety zones and communication, remote banking and 2-way radios, removing the Banksman from the 'danger area'.
2. All traffic areas should be clearly defined
 - Physical exclusion zones between plant and personnel should be used.
 - Remove the need for reversing where possible.
 - Exclude none authorized personnel from areas in which vehicles are permitted to operate
 - Have speed restrictions and signs displayed
 - Use mirrors and visual aids on both vehicles and at corners with obscured hazard
 - Fit reversing alarms and other safety devices, e.g. Vehicle Collision Avoidance System, warning lights when a vehicle is in use.
3. Where it is not possible to physically segregate persons from entering the risk zone, then an effective control system must be considered. (E.g. proximity warning technology such as Safe Shield or mechanical restrictor).

Proximity Warning devices

Proximity warning devices such as Safeshield / Safe Zone / Vin Sitesafe alert the machine driver to personnel presence within the 'danger zone' a visual / audible alert is activated when the detection zone is breached by personnel wearing a transponder, the machine operator is alerted to their presence and can take the appropriate action an additional tier of protection / warnings is available for pedestrians.



Vin-SiteSafe is a Tag based Proximity Warning and Alert System, which reduces the risks of accident due to blind spots and low visibility area, by moving machinery



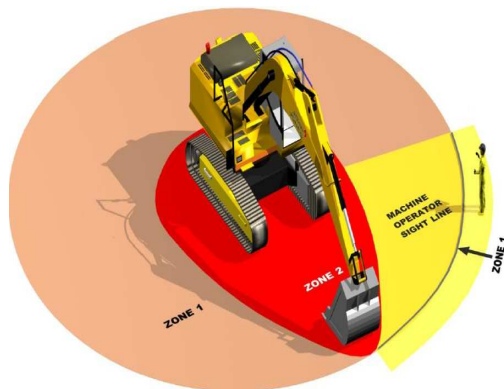
www.vinsitesafe.com



The kit is portable enabling it to be moved from cab to cab creating an instant exclusion zone around the “difficult to see” areas of a machine.

Excavator Warning lights

A low cost, high value innovation warning lights can be installed in the cabins of the excavators which can be activated remotely by the banks man to alert the plant drivers in a quick and simple manner whilst keeping a safe distance away from the excavators



- Zone 1 – Always signal to the driver and receive a positive response before entering, e.g. THUMBS.
- Plant operators to ensure machines are switched off, buckets or attachments are grounded before people approach.
- Zone 2 – **Do not enter.**

Please review your current controls and if you need to discuss further please contact your local HS&S Advisor.

Dean Williams
HS&S Advisor
Galliford Try Plc

Communication Required: (double click on box to tick action to be taken)

Toolbox Talk € Notice Board ✓ Supply Chain ✓ Review of Site Activities ✓ Information only €

Actions Completed by: **Date**