

# Necessity to harness customer feedback the user's view



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# What benefits could be gained from improved user input

## Benefit

- n Safer access
- n Integrated design
- n Improved operator interface and ergonomics
- n Consistency of functionality

## Gain to the industry

- n Reduction in accidents
- n Less downtime and issues around durability of machines
- n Operator comfort and well being of operators
- n Reduced risk of accidents caused by operator error



# Illustrations of the problems arising from poor design

- n **Access to inspection points and risks from working at height with no protection**
- n **Would the OEM access provided on this machine satisfy the requirements of the working at heights directive?**
- n **Is fall protection adequately provided for?**
- n **Who will be held accountable for a life threatening head injury to an employee?**





The pick up truck stands 1.8 metres to the roof, how high does this make the top of the access ladder?



# What prevents the operator from falling off these walkways?



# Bolt on equipment issues





# More equipment to prevent injury and damage



# More equipment to prevent injury and damage





## More examples of side and rear sensors



# Sharing best practice and lessons learned in the UK

- n Mineral Products Association (MPA)

[www.safequarry.com](http://www.safequarry.com)

- n UK Health and Safety Executive (HSE)

[www.hse.gov.uk](http://www.hse.gov.uk)

- n Safety Alerts internally and from our competitors!

- n Accident reports, route cause analysis and panel of enquiry

- n Operator knowledge, skills and experience




# Safety alerts

safe work healthy life

HEIDELBERGCEMENT

## HC AID Alert

The following information is to alert you to a recent incident and may help in avoiding future occurrences in your workplace

HC AID No:	226		
Business Line:	Aggregates		
Company/ Plant/ Country:	Českomoravský šternk, a.s.	Ondřejovice	Czech Rep.
Date - Time:	2009.06.25. 11:30	Lost days:	more than 133 days
Status:	Own employee		
What happened:	While the employee was getting off the excavator (DH 611) on the platform in front of the cabin, he slipped, lost his balance and fell on the ground. He broke his right heel bone.		
			



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## Aggregates & Asphalt SAFETY ALERT

### Mobile Plant Access & Egress

While leaving the cab of his loading shovel an operator jarred his back. He did not secure the door & also did not realise that the fixed handrail was wet causing him to lose balance & fall from the bottom step.



To ensure safe access & egress:

- Inspect steps & handrails
- Ensure that doors with handrails attached to them are safely secured
- Ensure steps & handrails are clean
- Always maintain 3 points of contact
- Be extra vigilant when entering or exiting mobile plant in wet or cold conditions



11.12.2009

1 of 2

safe work healthy life



Business Line: **HQP**  
Subject: **Mobile Plant Access and Egress**

Location: South

Date: May 2010

Recently found examples of unsafe access and egress to mobile plant.

Example 1 – loading shovel with damaged steps, uneven footfalls, bent rails & split rubber on the bottom step.

Example 2 - hydraulic excavator with the walkway & powered access steps removed.

Example 3 - loading shovel which had damaged offside access steps that were removed for repair but not fitted back on.

- Ensure that steps and handrails are inspected and if required cleaned as part of your daily checks.
- If defects are found report it immediately to your Supervisor.
- Do not operate mobile plant with defective or missing steps and handrails.
- Always park on level ground at least one metre from other machines, vehicles and buildings.

Safe access and egress to mobile plant is a basic requirement of safe operation.

For information on the above please contact

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## AGGREGATES SAFETY ALERT –Mobile Plant

### Case 921E Wheeled Loaders

**ANY SITE CURRENTLY USING ONE OF THE ABOVE MACHINES SHOULD CHECK FOR THE FOLLOWING**

A Joint Venture site has recently purchased a brand new Case 921E Wheeled Loader. It has been found that the guard covering the large cooling fan is made so that it can be swung open to allow cleaning of the radiator matrix. The guard is secured by a simple rubber latch and can easily be opened with the fan running.



If you have any Case machines on your site you should check if the guards are secured correctly. If they are similar to this example you should take immediate action to reduce the risk and seek advice from your supplier about having the guard suitably modified. All guarding should be securely fixed in such a way that a tool is required to remove them.

# SAFETY ALERT

Business: Aggregates  
JCB Glass Door Hazard

Region: South West Location: Whatley Quarry Date: 20.03.08



Shattered Glass Door Panel



Door latch without rubber stop block

**Incident Details**

The site operative dismantled from the JCB machine and shut the door using his left hand. The glass door panel shattered & some glass particles landed on the operatives hand causing some minor cuts. It appears the door latch punctured the glass panel as it struck the door.

**Action**

The incident was reported to the JCB service provider, they claim that this is not a common fault with the latch and door. The door should have been fitted with a rubber block to prevent the latch striking the glass.

Glass replacement fitted by RAC.

**Remedial Actions**

- The latch is provided so the cab doors can be secured ajar whilst in operation.
- This machine is fitted with air-conditioning so there is no need for the additional ventilation.
- Latching the door open also increases the ingress of hazardous dust.
- The door latches have been removed from this vehicle.

Why not visit [www.safequarry.com](http://www.safequarry.com) to view more industry best practice and safety alerts.

For further information please contact  
Ian Baggelaar RHSA SW Region



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**AGGREGATES SAFETY ALERT**

20 03 08

Title: Fixed Roller Access

Business: Planting

A recent accident where an operative fell whilst dismounting from a road roller has raised an issue of using unsuitable fixed plant.

In this incident the plant access/egress was over the large roller wheel as in the photograph below. This roller was fixed in from Cleve Hill and is of an unacceptable standard i.e. to get out of the roller it requires the operative to stand on the edge of the steel wheel. Please ensure when fixing plant equipment it meets suitable safety standards and access and egress meets those as in the second and third photographs.



ALWAYS MAKE SURE THAT PLANT IS SUITABLE AND SUFFICIENT FOR ITS USE AND THAT IT MEETS SAFETY REQUIREMENTS. DO NOT ACCEPT SUB-STANDARD EQUIPMENT - WE PAY FOR IT AND WE WANT THE BEST.

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## MOBILE PLANT ACCESS SAFETY ALERT 11 07 003

During a Directors on site Review, it was found that a 360 excavator was being used whilst the hydraulic access steps were broken. The staff were clambering through the safety railings to get into the machine, potentially being at risk from falling from height.

This incident raises several issues.

1. The steps should be interlocked with the ignition to prevent the machines operation unless the steps have been raised.
2. All machines with a similar system should have an alternative method of accessing the cabs should hydraulic steps fail. This will allow the machine to be kept in service.
3. All operators are to be reminded that it is not acceptable to clamber up and through safety railings and management should park machines up that are not safe to use.



This picture shows similar steps to those fitted to the machine on this particular site. Note the safety railings were metal and fixed in position (unlike these)



## Metso Mobile plant steps HQP

Date: February 2010  
Location: Ystrad  
Meurig

### Information

Following an incident involving the fixed steps on the Metso ST 300A mobile crusher, where the step adjuster locking mechanism had loosened due to vibration causing the steps to fold in when the operator attempted to climb on to the plant.

The locking mechanism has been redesigned to stop the possibility of loosening due to vibration.



Original locking mechanism



Redesigned locking mechanism



### Learning Outcome:

Please ensure that mobile plant is inspected before use every day.

Ensure that steps, handrails, handholds and walkways are clean and in a good state of repair.

Ensure that defects are reported to your line manager.



For information on the above please contact your AHSA





# Necessity to harness customer feedback

## n The fatality could have been prevented!

- Pain and suffering to family, friends, work colleagues
- Injuries to individuals
- Damage to equipment
- Criminal action
- Civil action
- Bad publicity
- Loss of production
- Increased costs
- Poor morale
- Failure in tender process – no longer the supplier of choice
- Recruitment – difficult to recruit good people



Thank you!  
Jimmy

