

Sharing good practice 2014/15

IDEAS ON HOW TO MAKE YOUR WORK PLACE SAFER



ENTRIES FROM THE
MPA HEALTH AND SAFETY AWARDS



SIEMENS

Unleash potential – with Industry Services

Improve the performance of your machines and plants
with technology-based services

Industry Services

The experts from Siemens are committed to supporting you with comprehensive expertise, providing customised answers to industry-specific requirements and to your individual needs. With technology-based services, they unleash the hidden potential in your production – directly on-site at your location, 24/7.

Siemens' global network of experts helps you measurably improve the performance of your machines and plants – important factors on the road to the future of manufacturing and more nimble, flexible, and intelligent production for a lasting competitive edge.

Higher availability, lower lifecycle costs, and optimal use of all resources pay off: They give you a crucial advantage in the face of increased cost pressure, rising raw-material prices, and stricter environmental regulations.

Unleash hidden potential:

Telephone:
UK: 08458 507600
IRE: 1890 507600

E-mail us:
Sales.gbi.industry@siemens.com
(Product Sales, Quotes, Order & Delivery)

Service.gbi.industry@siemens.com
(Technical Support, Spares & Service Engineers)

Website: www.siemens.co.uk/industry

Answers for industry.

Occupational Health

We Understand Quarrying



With 20 years' experience in construction, quarrying and aggregates IDC provides long-term, robust Occupational Health Services to any client in this sector, irrespective of organisational size or complexity.

Providing advice specific to risk, OH professionals attend site in order to offer case management advice. We believe in engaging managers and the work place in our assessment approach as this provides more informed and engaged solutions. This leads to better health outcomes for employees and employers alike.

The quality of the Health Surveillance service provided by IDC is unrivalled. We believe we are the only OH company who achieve 100% against our SLA's and KPI's not only now but over the previous 20 years. Additionally the robustness of our approach is proven to significantly reduce occupational health issues and insurance liabilities.

Noise

Our Gold Standard hearing assessment and hearing conservation program delivered by our Audiologists will identify and manage cases of Noise Induced Hearing Loss and reduce the risk of further hearing damage. This service also advises on PPE and risk management, is proven to protect employees hearing from noise damage and to significantly reduce our client's exposure to hearing claims.

Dust / Respirable Crystalline Silica

Our Gold Standard program delivered by our Clinical Physiologists will assess employees' respiratory function and, in full consideration of length and extent of exposure, determine if employees require further investigation for COPD or silicosis. This service also advises on RPE suitability and efficiency and risk management

HAVS

Our Gold Standard program delivered by our Qualified HAVS Assessors will identify and forward manage mild, moderate and severe cases of HAVS or CTS. By assessing the risk (including that from previous employment) we will advise on the necessity for adjusted duties, prevention strategies to reduce cold provocation. Where necessary we will obtain a diagnosis from a HAVS Specialist Physician.

Other Services

- Manual Handling Assessment
- DSE Assessment
- COSHH Dermatology Surveillance
- Lone Working Assessment
- Safety Critical Worker Assessment
- Working at Heights Assessment
- Night Working Assessment
- Kiln Wreck Assessment
- Confined Space Working Assessment
- Visual Acuity and Colour Perception Assessment
- Site and Quarry Vehicle Driver Fitness Assessment
- Random Drug and Alcohol Testing
- RPE Fit Testing
- Wellness Programmes
- Lost Time Accident Services
- Ill Health Retirement Advice
- Immunity and Vaccination Programmes
- Fitness for Disciplinary / Tribunal Advice
- Sickness Absence
- Specialised Risk Assessment



INDUSTRIAL
DIAGNOSTICS
COMPANY

The Industrial Diagnostics Company Ltd
Atherstone House, The Sidings,
Merry Lees, Leicestershire. LE9 9FE

T +44 (0) 845 0775512
W www.industrial-diagnostics.com
E info@industrial-diagnostics.com

Foreword



Achieving our goal of Zero Harm will only be possible if we are relentless in our efforts to identify ways in which we can make our activities safer in every sector in which we operate. This will only be possible if we share and learn from others. The innovations, new systems and initiatives highlighted in this publication in most cases can be applied or adapted to similar situations across the industry. This publication epitomises the MPA 'Safer by Sharing' ethos of communicating the best ideas so that all can benefit and hopefully be inspired to think of new ideas, which in turn may be shared.

MPA members have championed a huge range of initiatives to improve the safety of drivers and other road users. A new section has been added this year to specifically reflect initiatives to Reduce Operational Road Risk. This compliments other driver related initiatives summarised in other sections. The importance of engaging with the wider community and campaigns that encourage employees to share key health and safety messages with their families are also highlighted in several other entries.

The MPA Health and Safety Awards are open to all and attract entries from SMEs, the larger companies, suppliers and service providers to our industry. They are judged independently and celebrated annually at our Health and Safety Conference and Awards event. Whether an MPA member or not, please share your health and safety successes by entering the 2015 awards.

The short listed entries summarised in this document can also be found online at Safequarry.com together with all the ideas from previous years and many more routes to best practice. For those who have downloaded the Safequarry App, the winning entries from 2014 and 2013 can be viewed together with the videos supporting these entries. Please share the App with your colleagues. We have already exceeded 500 users for the App, we want to grow this so that everyone is able to benefit from immediate and free access to key health and safety information when they need it.

I do hope that you will find the 2014 contributions helpful and worthy of discussion with colleagues as we look forward to receiving new ideas for celebration and sharing in 2015.

Nigel Jackson, Chief Executive



John Crabbe Memorial Trophy for Outstanding Excellence in Health & Safety – Hope Construction Materials.

Trophy sponsored by Babcock International



Sir Frank Davies Trophy for companies with less than 1000 employees – Kilwaughter Chemical Company.

Trophy sponsored by Industrial Diagnostics Company



Contributors to H&S Awards in 2014

MPA Wales Regional Working Party Joint Entry
Quarries Partnership Team (QPT)
Aggregate Industries UK Ltd
Charcon Flooring
Charcon Construction Solutions
BAM Ritchies
Bathgate Silica Sand
Breedon Aggregates Ltd
Brett Group
Brett Landscaping
CEMEX
Chepstow Plant International Limited
Colas Ltd
CPI Euromix

EPC-UK
FM Conway Ltd
Forticrete
Golder Associates (UK) Ltd
GRS Roadstone
Hanson Aggregates
Hanson
Harsco
Hills Quarry Products Ltd
Hope Construction Materials
Kerneos
Lafarge Tarmac
Lagan Cement
Whitemountain Quarries Limited

Marshall's PLC
Moreton C Cullimore
Myers Group
Northstone (NI) Ltd
Sibelco UK
Singleton Birch Limited
Smith & Sons (Bletchington) Ltd
Stanton Bonna
Steetley Dolomite
Transport for London
United Asphalt Ltd
Weinerberger

Introduction

This guide summarises the best ideas and innovations from the MPA's Health and Safety Awards 2014.

Some of the entries are flagged to show that there is a video available – the videos can be viewed at www.safequarry.com. In addition to this year's entries, awards from previous years can also be accessed. The website features a database of incident alerts, toolbox talks and the latest on the industry's hot topics. By registering on the site, you will receive email alerts when new items are added and an 'information basket' where you can store those that most interest you.

The resources are ideal for training purposes and for Continuing Professional Development (CPD). We hope that organisations of all sizes working within the mineral products industry will find them useful and accessible. To ensure that your browsing on www.safequarry.com is recorded for CPD purposes, you do need to log in every time that you access the website. The winning entries and related videos can also be viewed on the Safequarry App.

How to use this guide

This guide is a compilation of solutions that MPA companies have applied to minimise and, where possible, eliminate health and safety risks arising from their daily operations. The ideas and innovative approaches are often very simple and inexpensive and could readily be applied to a range of common industry problems.

It is hoped that by reviewing this guide, particularly those sections relating to your main area of work, you will recognise solutions that could be applied within your own workplace or that will generate an idea for an alternative solution.

The guide has been divided into eight sections to reflect the categories used in the MPA awards. They focus on those areas that have the most impact on improving health & safety in the work place. We have indicated which entries were prize winners, and which have video clips available. To help you locate entries relating to a certain subject, we have provided a keyword index. If you would like more information on an entry than that available via www.safequarry.com, please send an e-mail to info@safequarry.com quoting the entry number which is located immediately to the left of the entry title.

The sharing of best practice is crucial in helping the industry to achieve target zero.



Contents

 Bitumen, Asphalt & Contract Surfacing 4 Sponsored by the Refined Bitumen Association	 Transport Initiatives 27 Sponsored by Brigade
 Contractors Safety 10 Sponsored by Mentor Training	 Occupational Health and Well Being 30 Sponsored by Addax International Limited
 Engineering Initiatives 14 Sponsored by Hycontrol	 Worker Involvement 32 Sponsored by Institute of Quarrying
 Behavioural Safety, Safety Culture & Leadership 20 Sponsored by MPQC Mineral Products Qualification Council	
 Reducing Occupational Road Risk 24 Sponsored by TfL Transport for London	
	Index 35
	Health & Safety working groups 36



551 Traffic Safety Wand for banksmen

Lafarge Tarmac > Syston Contracting



DESCRIPTION

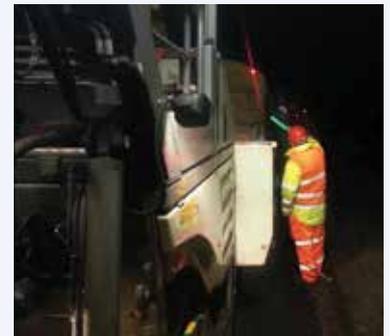
Lafarge Tarmac was seeking an effective way to improve the visibility of banksmen and the clarity of instructions they were giving to drivers. This was important as surfacing work often takes place at night, on live highways with delivery vehicles frequently being required to reverse and manoeuvre within a limited area with other plant working in close proximity.

Following research a super bright, compact and lightweight traffic wand was developed, effective at over 300 meters. It has a magnetic base enabling it to be mounted to stationary metallic objects/ vehicles and a useful white LED torch function. The banksmen can change the wand's colour reinforcing the instruction being given.

A programme of training sessions has been implemented involving site supervisors, banksmen, plant operators and delivery drivers on the use of the 'Traffic Safety Wand'.

BENEFITS

- Visibility of banksmen and instructions significantly enhanced
- Reduced risks of injury to banksmen
- Reduced risk of collisions and other incidents when vehicles are manoeuvring
- Improved traffic management on-site.



605 Installing 'Fire Fan' on sealed asphalt plant house

Aggregate Industries UK Ltd > Darwen Express Asphalt



DESCRIPTION

The Darwen Asphalt Plant is located within a sealed building. This results in a build-up of both heat and fine respirable dust with a high concentration of silica creating a hazardous environment. Operators undertaking repair and maintenance work were required to use respiratory protection suits which were uncomfortable to wear at air temperatures of +40°C. Furthermore, the fire brigade had identified potential casualty recovery difficulties in the event of a fire, due to smoke build-up.

Having identified these issues, the site staff was involved in the

process of developing a solution. It was decided to install a blower fan onto the side of the building that would purge contaminated air and to add a system that would produce a fine mist of water that would suppress particulate matter. The new system creates a safer working environment for maintenance work and will help to control the spread of a fire. The system is activated prior to maintenance staff entering the building or by the fire alarm.

BENEFITS

- Total respirable dust reduced from 3.86 to 1.09 mg/m³ 8 hour TWA
- Respirable crystalline silica reduced
- Air temperatures maintained below 24°C while the fan is operating.
- Temperature reduction achieved within 7 minutes
- Visually, all fumes are evacuated within 2 minutes
- Respiratory protection is no longer required
- Safer environment for operators
- Improved dust control and housekeeping standards
- Better control of risks in the event of fire
- Improved morale and sense of pride in what has been achieved.



visit www.safequarry.com for more details or email: info@safequarry.com



536

Mixer drip door

Lafarge Tarmac > Cambridge Asphalt



DESCRIPTION

The design of the discharge system from the mixer box into a skip positioned below resulted in a maximum delivery of just 1.7 tonnes and frequent small spillages that had to be manually cleared on a daily basis. The capacity limitation also meant that



Before (left) and after (above)

although the mixer could handle a 2.1 tonne mix, if a customer required 2 tonnes of material this had to be completed in two batches.

The solution was a design for a mixer drip door between the mixer box and the skip. This prevents any spillage whilst the skip is not directly underneath with the ability to direct the flow of material into the skip, thus improving capacity.

BENEFITS

- Manual handling involved in cleaning around skip removed
- Improved distribution of material into skip increases capacity of the skip to 2.1 tonnes
- Plant production rate increased from 88tph to 98tph
- Energy consumption reduced by 25%
- Less material wastage through spillage
- Safer, cleaner and more efficient plant.

583

Installing interlock system on chipper guard

Breedon Aggregates Ltd > East Contracting - Ethiebeaton



DESCRIPTION

Following publication of the MPA chipper guidance, a plant fitter at Breedon Aggregates was reviewing the trough guarding on a hydrostatic chipper. He was concerned that the guards could be removed without having isolated the machine. To resolve this risk, proximity switches were fitted at each end of the trough, and connected into the main control box. If for any reason the trough guards are opened when the machine is running, the power to the augers is removed, which stops them turning. The engine remains

running and continues to power work lights, beacons and other essential safety items particularly during night-time working. A small light at the rear of the proximity switches is illuminated when the guards are closed.

BENEFITS

- Possibility of injury to operators reduced
- Simple, low cost safety system that can be installed in four hours.





543

Industry first in skip winch braking systems

Harsco > SteelPhalt



DESCRIPTION

Following an incident in which a skip's winch braking system failed causing it to 'free fall' through the stops into the asphalt plant resulting in extensive damage and loss of business during repairs. Harsco, in conjunction with Qualter Hall and Benninghoven, designed and installed a revolutionary secondary braking system to ensure the incident could not be repeated.

Before modification, the only braking on the winch was located within the electric motor (on the input side of the gearbox) which

meant that when the gearbox failed, there was no means of stopping the winch. The replacement winch includes an electro/spring applied disc brake that activates directly onto the drum. This ensures that should there be a failure in the system, the skip will be immobilized immediately and held in position.

BENEFITS

- A robust skip/winch braking system is now in place
- Eliminates risk of both injury and damage in the future.

609

CCTV lens cleaning from ground level

United Asphalt Ltd > Theale



DESCRIPTION

Theale Asphalt Plant uses CCTV to enable the critical parts of the manufacturing process and loading to be monitored from the control room.

The cameras located around the site are exposed to dust and fumes requiring the lens to be cleaned on a regular basis. Cleaning necessitated the operator to use either a ladder or MEWP with the consequent risks associated with working at height.

To resolve this issue and to simplify the task, a solution was developed that utilised the existing compressed air system on the plant. A control box was set up that enabled a burst of air to be applied onto the lens of the appropriate camera. This was

achieved by carefully positioning a copper pipe bent to shape to direct the blast of air onto the lens. The copper pipe is connected to the air system and is solenoid controlled.

BENEFITS

- Cleaning of camera lens safely completed using control switch at ground level
- Reduced maintenance time and improved visibility in control room
- System is low cost and easy to install
- Solution could easily be replicated on other plants.





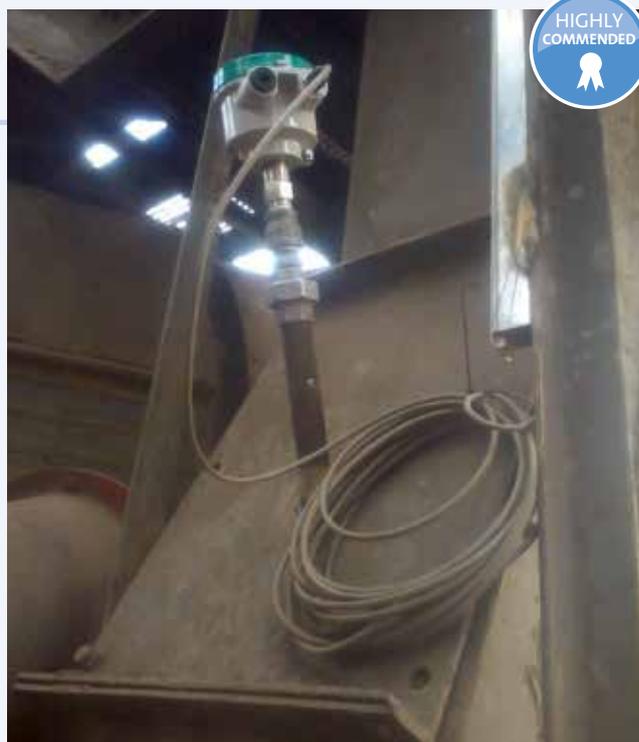
648 RAP chute monitor

Hanson > Marini Asphalt Plant

DESCRIPTION

At Hanson's Marini Asphalt Plant, conditioning stone exiting the dryer is mixed with RAP before bitumen is added. It was found that without the addition of the RAP, the temperature of the stone leaving the dryer was high enough to ignite the bitumen being sprayed into the mixer, causing a fire risk. A consistent RAP feed was therefore critical to the safety of the plant and a means of monitoring the RAP at the point of entry was required.

The solution was the installation of a level probe that independently monitors the RAP at the point of entry. The probe monitors the percentage of RAP in the chute and if it increases above a set level, meaning the chute has blocked, an amber light comes on in the control room indicating there may be a problem and a warning alarm appears on the PC control screen. This allows



for some rudimentary investigation and repair, or if it rises to a set point, the bitumen dosing system is turned off removing the fire risk.

BENEFITS

- Reduced risk of fire
- System in place to monitor critical safety parameter
- Warning allows remedial action before system is shut down.

589 Designated off-loading area for bitumen tanker deliveries

CEMEX > Billingham Coating Plant

DESCRIPTION

Staff at Billingham Coating Plant decided to review and improve the safety of deliveries to their bitumen tanks. Over a two week period they consulted with delivery drivers about what would assist them and make the operation safer for all on-site. A simple and cost effective change was implemented: For each tank, a



designated parking area was marked out in high visibility floor markings to assist the drivers. Painted sleepers were set up as curbs to provide a physical stop point at the optimum distance from the tank, taking into account the delivery hose lengths. A chain barrier with signage was also put in position to restrict access when bitumen was being delivered.

BENEFITS

- Drivers very positive about changes
- Easier for drivers to complete unavoidable reversing manoeuvres
- Avoids possibility of tankers reversing into the tanks
- Tankers ideally positioned to complete deliveries
- Safer environment for both drivers and operators
- Process has enhanced safety culture on the site.



643 Tail drum guard and platform

Hanson > Ettingshall

DESCRIPTION

Access to the dust feeder, hopper and vibrators at the asphalt plant at Ettingshall was a concern as maintenance often required



BENEFITS

- Maintenance can be carried out safely and efficiently at height.

Before (far left) and after (left)

532 Safer bitumen through effective visual and sound management at point of delivery

Lafarge Tarmac > Santon Asphalt

DESCRIPTION

Following the introduction of new guidance for 'Safe Bitumen Tank Management', the staff at Santon asphalt plant set up a working party to review how deliveries could be improved. It was decided that all tank/silo deliveries would be made following clear and easily understood information provided to all drivers.

A high level and an ultimate high-high level alarm were installed on each tank with indicator lamps and a klaxon. Each tank was also fitted with an additional green indicator light informing the driver that the tank is able to accept 28t. A large display unit shows the tank contents and the safe ullage that the tank is able to accept. The layout of the delivery point was changed. Barriers, improved

lighting and a camera were installed, traffic management was reviewed and ground levels adjusted.

BENEFITS

- Positive feedback from delivery drivers who now feel in control of delivery process
- Trip hazards removed from site and pedestrians protected
- Mixer man is able to monitor drivers and deliveries safely
- Housekeeping much improved
- Delivery drivers segregated from other traffic
- Drivers no longer need to reverse
- More control over the whole delivery process.

642 Burner ram for safer cleaning

Hanson > Ettingshall

DESCRIPTION

During routine maintenance of the burner on the asphalt plant at Ettingshall, two people were required to push the burner back along its tracks for cleaning. This had the potential to cause a strain injury and was very impractical. The solution was to attach the burner to a pneumatic ram specially designed to pull the burner slowly back into its safe maintenance position via a control lever mounted a safe distance away. The ram can be isolated at source whilst the maintenance work is completed, the burner being gently returned to its working position via the ram.

BENEFITS

- Eliminates possibility of strain injury
- Reduces the number of people required to carry out maintenance.





660 Fire box to house critical information

Aggregate Industries UK Ltd > Darwen

DESCRIPTION

The manager at Darwen asphalt plant, a former firefighter, was concerned that anyone from the emergency services unfamiliar with the site would not have all the information needed if attending the site in an emergency. To address this he liaised with the local fire service and agreed the ideal format of the information required. A bright red fire box was installed close to the entrance, housing a file containing all the relevant information:

1. Key site information – key holders, staff numbers and locations
2. Key location map – schematics of the site and plant, ideal for an 'Incident Command Pack'
3. Hazardous materials map and information
4. Innovative gantry layout map – to facilitate casualty extraction and brief in-going teams

5. Hydrant location map, key isolation points and fire extinguisher location map
6. Innovative bitumen tank fire guide

The fire guide was also converted into a large sign erected adjacent to the bitumen tanks for quick reference by firefighting teams. The local fire service engaged with the site, reviewing and improving the safety information pack.

BENEFITS

- Faster response in the event of a fire emergency
- Simplifies a complicated site promoting a rapid extrication should any life be put in danger
- More robust site emergency response procedures
- Enhanced compliance with the requirements of the Regulatory Reform (Fire Safety Order) 2005
- Significantly strengthened the fire safety position at the site.

618 Safety locking device

CEMEX > Local Asphalt Carlisle

DESCRIPTION

Staff at Local Asphalt Carlisle designed and built a safety locking device to ensure safer deliveries of bitumen. The front of the unit slides forward on runners to enable the flange and bolts to be tightened before the cover is slid back into place and locked. Bitumen delivery drivers had direct involvement with the design of the device.

BENEFITS

- Eliminates possibility of splash backs and burns to drivers
- No manual handling or lifting since doors open outwards.





592 Web based computer induction system

CEMEX > Rugby Cement Works



DESCRIPTION

CEMEX UK's Rugby Cement Works wanted to improve their contractor induction process. It was felt that the 2.5 hour site induction based on videos and PowerPoint did not address sufficiently the individual contractor's experience and the particular competencies required for the job. The system was also potentially open to abuse by contractors.

CEMEX developed a comprehensive, web-based management package focused on the individual worker. This ensured that the induction was appropriate for the site and job specific issues. It helped confirm the contractor's competency for the task to be carried out through the individual's personal history, including training, task experience and site-specific performance monitoring. Positive feedback and poor-performance tracking enabled supervisors to identify and address issues.

The system is based on 11 short modules with pass or fail

questions at the end of each. Contractors work through the induction process based at booths equipped with computer terminals. Each module has been translated into eight of the major European languages. A photo ID card is issued using a web cam and a site standards book.

The system is shared across CEMEX sites and compliments the PICs system.

BENEFITS

- Induction process reduced from 2.5 hours to 30 minutes
- Inductees learn more by reading the material themselves
- System helps identify an individual's needs that can then be addressed
- Consistent approach to induction across sites and avoiding duplication
- Ensures language is not a barrier to an effective induction process
- Information on contractors' performance and competency is shared
- System is easily updated and easy to interrogate
- Positive feedback from contractors to this approach
- Compliments the PICs database
- Approach can be used to develop new modules for other areas.



636 Asphalt collect customer safety initiative

Wales Regional Working Party joint entry > CEMEX, Hanson, Aggregate Industries, Lafarge Tarmac, G.D. Harries and Sons



DESCRIPTION

Members of the MPA Wales Regional committee were concerned by the standards of safety with collect customers at their asphalt plants. They recognized that to achieve improvements, a consistent standard of safe operating procedures would need to be applied across all sites. It was agreed that the best way to influence change was to work in partnership and use the Safer by Sharing approach.

A working party was established and agreed a policy where all the operators would implement consistent safe operating procedures. Several meetings were held resulting in a set of rules and the publication of a do's and don'ts safety card. This formed part of the collect customer's induction.

A number of workshops were held for the employers of the drivers. At workshops, examples of unsafe practices were highlighted and the new policy was explained. Training packages were provided for them to give to their staff.

BENEFITS

- Workshops were well received by collect customers
- Collect customers are committed to support campaign
- Training packages were used by employers with their staff
- A consistent approach to safety procedures applied across the region
- Scheme is on-going and results monitored.



visit www.safequarry.com for more details or email: info@safequarry.com



555 Reducing contractor risk

EPC-UK > Rough Close - Alfreton

DESCRIPTION

Experience of contractor failures identified a need to improve performance of contractor control. EPC therefore revised their selection process, site induction and contractor control processes, categorising work as high or low risk and assigning an appropriate level of supervision.

The approach conforms to HSE guidance and uses behavioural safety audits as part of the monitoring process. All contractors were invited to a briefing prior to the launch of the new process and senior management's commitment to this initiative was emphasised. Key elements included:

- Pre-screening of contractors including a review of their training and competence assessment of employees, risk assessments and method statements
- All contractors on-site to undergo a site induction, repeated annually or earlier
- A method statement and risk assessment is required prior to commencing work of a hazardous nature
- Revised contractor control procedures based on the level of risk. High risk tasks to require in-depth review of all key elements relating to the task plus the control measures. The procedures are documented and signed including an agreement from the contractor that they understand and will follow them



- DuPont Behavioural Safety STOP audits are often carried out with senior managers along with discussions relating to safety with contractors employed at their point of work.
- A written acknowledgement is provided by the contractor when the task is complete and, after a final inspection, the process is returned to production control
- Each job undertaken by a contractor is assessed against criteria and a total score allocated. When the score falls below an agreed level, a meeting is arranged with the contractor to advise them of the unacceptable standard of work.

BENEFITS

- No contractor-related incidents in last 12 months
- On-going review of contractor performance
- Contractors helped to enhance their performance
- Incentive for contractors to be high performing
- A safer working environment for all.

637 Contractor safety

Chepstow Plant International Ltd > Company wide

DESCRIPTION

Following an incident where a contractor working for Chepstow International Plant received a RIDDOR reportable injury, a decision was made to improve contractor controls.

All contractors must complete a detailed pre-qualification questionnaire. The information supplied is recorded, and where necessary, checked against databases on the HSE website. The information is reviewed and updated on a monthly basis.

All site supervisors and managers conduct checks on the contractors coming on-site, recording the information on a General Permit to Work. This ensures that the contractors' risk assessments and method statements are correctly completed, up-to-date and relevant to the task; that they hold the correct safety qualifications to attend the site and that they have copies of their cards or certificates available, such as Safety Passport Alliance, Essential Minimum Safety Standard or other standard as dictated by the company's clients.

Any specialist lifting equipment, electrical equipment or

pressurised equipment is also checked and copies of certificates for these items must be shown before the Permit is issued.

Once the contractor has met the standards set, they are allowed to proceed with the task, but are subject to regular supervisory checks by the supervisor or manager. The checks are recorded, including the time, date, and a description of the progress of the task.

The number of Permits to Work issued across all sites is one of the key health and safety performance indicators. The standard of the Permits is subject to the audit and site inspection programme conducted by the health and safety managers.

BENEFITS

- Clear standards and procedures in place to manage contractors
- A safer working environment
- Performance is being measured.



542 Acid wash station

Hope Construction Materials > Greater London

DESCRIPTION

Following an incident where a driver's eye was contaminated with hydrochloric acid, a production manager at Hope Construction Materials developed the concept of an 'acid wash station' to eliminate the possibility of a similar incident occurring. The kit is self-contained and includes all the different elements required to complete safe washing of vehicles and plant using a 14% hydrochloric acid solution.

The kit contains a sealable storage container, a 'using acid' risk assessment, safe system of work, COSHH data sheet and risk assessment, a sign in and out sheet, an extendable broom, a set of gauntlet gloves, a set of wrap-around safety glasses, an apron, stickers for putting on container for acid, FFP3 RPE and eye wash station.



BENEFITS

- Significantly reduced risk of incident involving washing down
- Complies with COSHH emergency procedures
- Operatives have all the appropriate PPE and information
- System has been adopted in over 30 other sites.

586 Fitters' safe working area, first aid room and emergency equipment store

Breedon Aggregates > Beaully Quarry

DESCRIPTION

At Beaully Quarry the container and oil storage were located close to a busy processing plant. This exposed the maintenance fitters to excessive noise, dust and vehicle movements. To reduce these hazards, a safe working area for contract fitters to service mobile and fixed plant was created. The new area is bunded on three sides with the quarry store, oil store, waste containers, spill kits and welder, burning equipment etc. all held within the area. The fitter's van parks within this area which is then closed off with a chain link fence.

In addition, a new first aid room and emergency equipment store were also created within this area.

BENEFITS

- Safer and controlled working environment for fitters
- Contract fitters no longer need to travel around site
- Positive feedback from contract fitters
- Fitters operate more efficiently
- First aid can be administered in a clean, safe environment
- Easy access to all emergency equipment and faster response in an emergency.





593 Combined permit office and isolation station

CEMEX > Rugby Cement Works

DESCRIPTION

At Rugby Cement works, the permit station was small and separated from the isolation station. Following consultation with employees and contractors, it was decided to increase the size of the existing isolation station and incorporate the permit station to allow co-ordination of both activities.

Each job is now allocated a pin reference number. The pin is placed on the plant schematic layout board and the relevant numbered permit rack is used to store all the job information (risk assessment, method statement, any additional special permits etc.). All personnel lock-off on a multi isolation box, cross referencing with the permit.

For the winter shutdown, a larger isolation box is provided so that whole sections of the plant can be isolated and locked-off at any one time, avoiding numerous individual isolations.

BENEFITS

- One-stop-shop for permit issue and isolation
- Easy cross referencing of permit and isolation
- Management can see where all the works are at a glance, allowing targeted inspections
- Ideal venue for important safety information to be shared
- Allows all relevant information for each job to be stored in one place
- Any overlapping works can easily be seen and accommodated.



674 Contractor induction assessment

Hills Quarry Products Ltd > Company wide > Swindon

DESCRIPTION

Hills were concerned that although they had well-established systems for the management and control of contractors on-site, there were occasions when contractors were showing their staff generic documentation produced by health and safety professionals and using these rather than Hills' own system. The contractor would not have the benefit of the site and task specific information or understand the standards and controls that Hills' required, to maintain their safety and that of employees.

To address this issue, a 'streamlined induction assessment' for contract workers was issued. The contractor is taken through a Contractor Induction Assessment which is recorded, to identify

the site-specific issues and relevant control measures. It is linked to a Permit to Work procedure which forms part of the Induction Assessment record.

BENEFITS

- Raises the profile of health and safety with contractors
- Contractors understand exactly what Hills requires and avoids working to a generic SSOW
- Both Hills' staff and contractors think more about the health and safety requirements of the specific job.



548 Return roller bracket for conveyors

Lafarge Tarmac > Mountsorrel Quarry



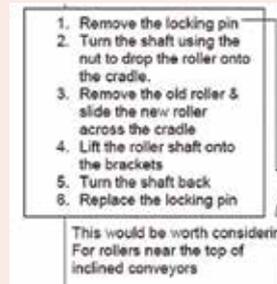
DESCRIPTION

A maintenance engineer at Mountsorrel Quarry designed a return roller bracket to address a range of issues that traditionally made the task of replacing the return rollers difficult and potentially hazardous. The bracket removes the de-weighting issue by replacing the return roller's normal locating points with a permanent purpose-built cradle. Instead of removing the weight of the belt by raising the belt, the weight is removed by pivoting the cradle downward and dropping the roller down into a 'cage' below the active conveyor. The cradle allows the roller to then be easily removed or replaced, without risk of the roller accidentally falling. When in place, the cradle has been designed to enable the roller to be lifted easily back into position.

BENEFITS

- Reduces risk for maintenance fitters who no longer struggle holding rollers for installation
- Roller can be slotted onto the catchment area with only a 30mm spanner required

- Eliminates need to use mobile elevated work platforms on conveyors with one-sided walkways
- Eliminates risk of the return rollers falling during installation or failure
- Halved the maintenance time required to replace rollers
- Bracket can be easily and relatively cheaply fitted to existing conveyors.



590 Installation of airbags for additional overhead protection

CEMEX UK > Rugby Cement Works



DESCRIPTION

During the annual winter shutdown two tasks were identified, both on the same critical path, and which impacted upon each other. Work was needed to be carried out on the Hog's Back refractory lining and at the same time was needed on the flash drier liners. The Hog's Back is 92m above the drier, connected by large diameter ducting. Protection would be needed for the personnel working below, against any falling material.

In addition to the standard roof protection nets fitted to the refractory lining in the Hog's Back, a series of airbags were trialed, and three were installed at different levels in the ducting. They sat on steel beams, and were designed to cushion and absorb the impact of anything falling from above. The airbags were sealed tight up against the side of the downcomer ducting.



BENEFITS

- Re-usable system
- Rugged construction
- Can be manufactured to any size application
- Tested by the Building Research Establishment and each capable of withstanding at least 400 kg from 9m height
- Relatively quick and easy to install
- Can be installed at various levels depending upon the application.

visit www.safequarry.com for more details or email: info@safequarry.com



666 Plasma cutting trolley

Charcon Flooring > Morpeth



DESCRIPTION

Charcon Construction Solutions introduced plasma cutting into the T beam manufacturing process at their Morpeth manufacturing site. This replaced the use of heavy, hand held, petrol saws which were used whilst standing on the T beam. During commissioning, it was realized that trailing electrical and pneumatic cables and the manual movement of the plasma cutting devices, were hazards. A trolley was developed to travel on top of the beams, integrated with suspended cables on a small monorail. It incorporated a set of side wheels which allowed the trolley to be guided by the side of the beam without 'crabbing'.

BENEFITS

- Reduced risks associated with noise, dust, HAVs, slips trips and falls

- Reduced risks from working at height and the potential for muscular and skeletal injuries
- Elimination of hazards associated with trailing cables (415 volt)
- Reduced risk of pneumatic high pressure injections injuries
- Reduced manual handling
- Cutting is quicker, less arduous and undertaken at ground level.



606 Confined space improved access

Aggregate Industries UK Ltd > Ghyll Scaur Quarry



DESCRIPTION

Ghyll Scaur Quarry has a vibrating twin deck screen. To access the bottom deck, it is necessary first to remove the linatex style top mat and then remove a section of the metal screening grid. Due to the narrow support steelwork, the manhole created is very narrow. Access is required quite regularly to deal with blinding of the bottom screen. Due to the amount of safety gear required including dust masks due to the presence of silica in the gneiss stone, it was an unpleasant and difficult process. More importantly the process of rescuing an injured or ill colleague would prove very difficult.

The solution developed was to cut out one cross section and replace it with a suitably flanged bolted section. The bolted section has performed satisfactorily in this area of high vibration and, when the section is removed, access to the bottom deck has effectively doubled in size.

BENEFITS

- Staff feel much safer and more comfortable when entering onto the bottom screen
- A rescue would be significantly easier with the wider access
- Cleaning and maintenance process is easier.





581 Reduction of confined space at the quarry

Brett Group > Rainham Quarry



DESCRIPTION

The feed hopper at Rainham Quarry was built at ground level with the majority of conveyors and feeders situated in a very hard-to-access area below ground which was prone to flooding. The designated area was in a confined space and protected by



distance guarding. The interior space was too tight to allow for specific guarding. This caused major difficulties when carrying



out maintenance as the plant needed to be isolated. Spillages were frequent and had to be manually cleared. A difficult and physical task working in a confined space. Due to the constant flooding, repair costs were very high with bearings and conveyor frames suffering in the damp conditions.

The solution was to redesign the feeder to enable the whole process to be carried out above ground. The replacement purpose-built platform and work area allow easy maintenance, and inspection and clearing of spillage is now much easier.

BENEFITS

- Eliminated the need to work in confined space
- Significantly reduced risk of muscular and skeletal injury
- More efficient, reliable and cost effective process.

608 Removable working platform

Lafarge Tarmac > Barrasford Quarry



DESCRIPTION

At Barrasford Quarry, the access to the conveyor head drum that carried material from the primary to secondary crusher, required a scaffold each time any maintenance or inspection was carried out. Directly below the conveyor is a reception hopper feeding material into the secondary crusher and therefore a confined space management approach was required when working on the conveyor head drum. A team of employees reviewed how this task could be made safer and quicker.

The solution was a platform that could be lowered and raised using a winch. When raised, it allows for safe visual inspection of the head drum without the need for scaffolding. When lowered and with the conveyor suitably isolated, maintenance can be carried out on the head roller, and the feed hopper for the crusher can be viewed and, if appropriate, 'rodded' through the grid of the platform.

BENEFITS

- Reduced manual handling and confined space working
- Reduced time and manpower required for maintenance and inspection.



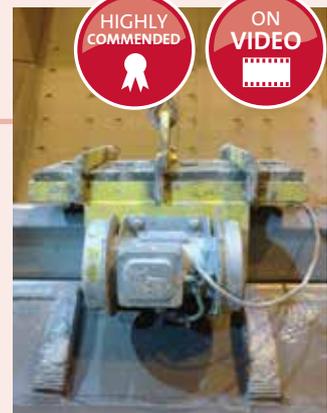


647 **Blowbar vibrator unit** Hanson Aggregates > Whatley Quarry

DESCRIPTION

Changing blowbars on the primary crusher at Whatley Quarry required someone to stand on the vibrator to hold it in position. The bars, each weighing approximately a tonne, are designed so that they are self-wedged into position. When the bars need to be changed, they have to be loosened using a sledge hammer before they can be drawn out sideways.

A new vibrator unit framework has been installed to hold the vibrator in position and shake down the blowbars. Once the dust has been blown away from under the blowbar, the vibrator is lowered into position by the overhead crane. The vibrator cradle ensures that it is correctly positioned on the blowbar. It is switched on and the blowbar is vibrated so it becomes loose enough to enable its removal. The vibrator has been designed so that its weight enables it to hold itself onto the blowbar.



BENEFITS

- Vibrator framework has eliminated whole body vibration
- Manual handling eliminated by use of the crane
- Fitter can stand at a distance during vibratory process
- Task is more easily completed and the blowbar is guaranteed to release.

560 **Access platform for changing primary crusher jaw** Breedon Aggregates Ltd > Leaton Quarry

DESCRIPTION

Quarry fitters at Leaton Quarry struggled when changing the primary crusher jaws both to find a safe place to stand while locating the jaw and bolting it in place and to avoid the potential of a crush injury if it over balanced.

A fully in-house engineered solution was designed, making this exercise considerably safer. Once the crusher has been cleared of material, an access platform is lowered into position. The platform provides both a safe working location and, with its barriers, protection from any possibility of the jaw falling back onto a fitter before it has been securely located. The platform sits on the crusher feedbox and the hoist can still be used to lift the jaw in and out.

BENEFITS

- Safer working environment when maintaining crusher.



670 **'Top Hat' rotary crusher concave replacement safety equipment** Hanson > Cliffe Hill

DESCRIPTION

Cliffe Hill operates a large gyratory crusher. The bowl is lined with wear plates which can wear thinner and splay out at the edges. This transfers energy to the adjacent plates since the 'squashing' effect forces neighbouring plates together building up stored energy. Thermal lancing is employed when worn plates need to be replaced, and during this operation, there is a potential for the stored energy to be released suddenly, pinging large concave wear plates into the crusher bowl where operators have to attach lifting chains to the heavy plates to extract them.

To eliminate this risk, a structure has been designed and built that can be lifted into the crusher bowl to form a safer workplace, and a

barrier between the concave wear plates has been removed. With this 'top hat' in place the men can work safely from a purpose built platform behind a barrier providing protection against concaves falling or pinging off. This procedure has eliminated the use of ladders with harness.

BENEFITS

- Significant risk has been eliminated from maintenance operation
- Eliminated risk of falls into crusher bowl from temporary ladders
- Improved working environment for operators.

537 **Unicone tail compliance tool****Lafarge Tarmac > Cement and Lime****DESCRIPTION**

Powder materials such as cement are transferred to customers' silos using pneumatic conveyor delivery from road tankers and rail wagons. The company had experienced a number of incidents where the delivery hose to silo inlet pipe couplings had disconnected under pressure. In the most serious incidents, operators and drivers have been hospitalised and there have been significant environmental emissions to the atmosphere.

Investigations show that these failures were due to the use of incompatible or badly worn delivery hose couplings and/or poor housekeeping routines. In addition, the coupling's angle of flare, its outer diameter or metal thickness were found to be out of specification.

A simple lightweight and easy to-use measuring tool was developed to check fittings. The tool can quickly check the coupling's interfacing connections to ensure the coupling

achieves correct seating of seals and effective clamping.

BENEFITS

- A quick and easy check to apply before delivery commences
- Increases personal safety through fewer incidents
- Reduces emissions of product to atmosphere
- Reduces potential for manual handling injuries forcing incompatible hose coupling
- Encourages the inspection and reporting of non-compliant systems
- Enables incompatible hose tails on delivery haulier tankers to be managed out
- Increases the longevity of coupling clamps and reduces their costly premature replacement
- Low cost tool, easily adapted for use with other industries.

627 **Maintaining minimum bund heights****Brett Groups > Waldringfield Quarry****DESCRIPTION**

At Waldringfield Quarry, a simple but effective means has been devised to help maintain the correct minimum bund height. This is particularly relevant at this quarry as it has a very shallow mineral deposit and hence the quarry is continually 'on the move', with the consequent re-alignment of access and haul roads.

All front loaders have bund levels marked on their front mudguards and hand held aluminium poles have been produced for use by pedestrians. Other staff can also view the bund height in comparison to the mark on the front loader as it works in the quarry.

BENEFITS

- Bund wall heights' easily checked and maintained at correct levels
- Safer working environment for all.

667 **T beam wire retaining bars****Aggregate Industries UK Ltd > Lound****DESCRIPTION**

Charcon Construction Solution's site at Lound manufactures T beams using long production moulding beds located outside. Prior to casting the beams, long reinforcement cables are laid in the moulds and pre-tensioned. Safety chains were placed across the moulds at every few metres to provide protection in the event of a cable break. The safety chains, which were welded to the beds and connected over the wires prior to and during stressing, were being damaged by rain and concrete contamination. Operators had to clamber over the beds to connect the chains, with the potential for a slip, trip or fall.

The solution was a purpose-built, rigid, spring loaded retaining bar. The unit has a locating flange at each end which allows it to be clipped quickly into position on the casting beds. The

retaining units can be fitted by one operator from one side of the bed. It is portable so it can be stored under cover when not in use. The mechanism accommodates width differences in the various beam type moulds.

BENEFITS

- Removes slip, trip and fall hazards
- Units no longer exposed to weather damage
- More efficient operation
- System is being deployed at other sites.



visit www.safequarry.com for more details or email: info@safequarry.com



591 New concrete sleeper de-moulder

CEMEX > Rail Solutions > Washwood Heath

DESCRIPTION

CEMEX UK's factory at Washwood Heath manufactures pre-stressed concrete railway sleepers. The de-moulding operation, a two-stage process using several cranes, involved both a high level of manual handling by the operator, together with working at height at various points along the production line. On occasion, the process resulted in sleepers either falling out of the de-moulder or off the storage platform with the potential to cause serious injury to personnel, damage to the sleepers and/or to the equipment.

After consultation with the operators, a new, self contained de-moulder was built. The new process engineered out the 'hands on' element. The machine is fully guarded and operated via a control panel.

BENEFITS

- Reduction in manual handling and working at height
- Considerable risk reduction to other personnel on adjacent production lines
- Reduced overhead crane activity by 50%
- Improved unit quality and increased efficiency
- Reduced maintenance
- Improved morale.



665 Helping customers to avoid working at height during offloading

Stanton Bonna > company wide

DESCRIPTION

Stanton Bonna were concerned that many of their customers were exposing their staff to the risk of a fall from height when unloading deliveries. It was not unusual for customers to request vehicles with edge protection without realising that there might be an option available that would avoid the need for an operator to mount the vehicle. In some cases, edge protection might not be suitable due to the nature of the products to be unloaded. Historically, specialist equipment to unload piping, manhole covers and similar products had been expensive, impractical or not easily available. With recent developments in equipment, customers were missing an opportunity to improve the safety of employees, increase productivity and reduce costs by taking advantage of new or different methods of off-loading.

A pro-active approach to help customers off-load safely involved:

- Identifying what offloading methods were available on the market and ranking them in order of safety

- Educating customers about the safety, financial and productivity benefits
- Providing on-site assistance to customers trying out unfamiliar equipment
- Producing documentation that could be used to engage with customers
- Providing a pre-slinging service to customers
- Supplying pipe lifter attachment as an additional service offer with delivery

BENEFITS

- Reduced working at height when off-loading concrete products
- Customers understand better the options and benefits available
- Customers are now using excavators with specialist lifting attachments, some utilise pipe and manhole lifters and some are now able to handle mixed product loads.

visit www.safequarry.com for more details or email: info@safequarry.com



530

'The Switch Programme' – Mobile phone campaign



Lafarge Tarmac > Company wide

DESCRIPTION

Lafarge Tarmac's senior management set a target to eradicate the use of mobile phones in hands-free mode whilst driving. The new mobile phone standard was applied to all employees, employed drivers and contractors working on behalf of Lafarge Tarmac on 1 January 2014.

This standard was based on evidence which showed that the reaction times for drivers using a mobile phone are around 50% slower than normal and they are four times more likely to have an accident.

To help communicate and embed this standard across the business, a working group, represented by all parts of the operational business and functions, was established. The working group was sponsored by a member of the senior leadership team.

A campaign was created called 'The Switch Programme', to help engagement with employees. It had two key objectives

- To raise awareness of the Standard
- To provide support to employees so they can comply with it.

The latter included developing new ways of working to manage the operational challenges of implementing the standard. Teams across the whole business participated in a toolbox talk which had a particular emphasis on how to make changes to working practices, both individually and as a team, to ensure compliance with the standard. A variety of communications materials were developed to support 'The Switch Programme' which included posters, articles in employee newsletters, an intranet discussion forum, branded promotional items, a New Year postcard reinforcing the new standard's launch and a competition for the best idea to help with implementation.

BENEFITS

- Reduced risk of employees or contractors being involved in driving accidents
- Inclusive campaign involving all levels of the company
- Employees encouraged to introduce this to their family and friends
- Sharing of best practice across the company.





577 **BLBP Cliffe Team – Site Safety Transformation – a Team Effort** Brett Landscaping > Cliffe



DESCRIPTION

BLBP Cliffe consists of three separate factories. Since 2010, the management team has led significant improvements, implementing a programme to make Cliffe a model of best practice.

The programme involved the implementation of a wide range of initiatives that included new health and safety systems; investing in a wide range of site improvements to improve housekeeping and employee safety; improved communications and sharing of health and safety issues; team work in identifying and developing the solutions to address them. The actions included:

- Introducing SHE Committee system
- Improving near-miss reporting
- Completion of BrettSafes (mini risk assessments)
- Clearly marked walkways and new barriers
- Upgrade of aggregates tower
- Installing flooring platforms for mixer tower
- Building workshop facilities to include adequate facilities for lifting operations
- Improved machine layout
- Improved traffic management system
- Improved site welfare facilities



- Implementation of HAVs monitoring systems
- Face Fit testing completed and poster campaigns introduced across the site
- New COSHH assessment system.

BENEFITS

- All staff engaged and the development of an 'open culture'
- Excellent housekeeping standards and improved work flows
- Significantly improved awareness and standards of health and safety
- RIDDOR reduced from 3 to 0 over 4 year period
- Reported near misses increased from 560 to 1017 within 4 year period
- Sign-off completion of near misses raised to 99%
- Very positive feedback from staff, suppliers and customers.

596 **Health and Safety days**

CEMEX > National

DESCRIPTION

In 2013, CEMEX held 18 health and safety days across the UK with over 1,500 employees attending in addition to contractors, customers, competitors and the enforcing authorities. (16 events were originally planned with extra demanded due to their success).

The health and safety days focussed on 'Look after yourself and each other' the number one Safety Essential in CEMEX.

The events differed to previous health and safety days in focussing on behaviours. A series of real life scenes were re-enacted by professional actors to show actions and behaviours of individuals in the workplace. Actors related the story of a factory based incident, using scenes to illustrate the run-up to an injury. In the intervals, the audience discussed what they had seen and how they related to their workplace. The audience was invited to suggest how certain events should have been handled to influence the right result.

Towards the end of the event the real life victim of the incident was revealed. Mr Ken Woodward OBE was blinded in an industrial accident many years ago and has since travelled the world telling



his story to try and influence safe behaviour in the workplace. He told his personal story and

the impact it had on his family, friends and colleagues.

Most were stunned by the appearance of Ken and the realisation that they had just been shown scenes from a real event with severe consequences.

The events were attended by all - from the UK President to the shop floor, across all parts of the business with a member of the senior management team opening and closing each event.

BENEFITS

- Described by many as "the best health and training they had ever received"
- Reaffirmed safety essentials
- Aided change in culture to interdependence
- 2013 saw the lowest Lost Time Injury Frequency rate ever for CEMEX.

visit www.safequarry.com for more details or email: info@safequarry.com

635 **Developing a HOPE Safety Culture****Hope Construction Materials > Company wide****DESCRIPTION**

Formed in January 2013, Hope Construction Materials has over 850 colleagues (direct employees) and several hundred service partners (contractors) working on a daily basis.

The first challenge was to mobilise and stabilise the business and bring together two different cultures, whilst at the same time maintaining a clear focus on health and safety throughout a period of massive change.

The Executive team recognised the importance of safety as one aspect of the business which all could get behind. The CEO delivered a series of one day visible felt leadership workshops to all directors and senior managers. Over 50 members of the senior management team made monthly site visits, supporting the safety effort of colleagues and service partners. Between April and December 2013 over 1163 hours of safety visits were logged (10% more than planned). Plus, every site received at least one visit from either a director or member of the senior executive team.

Every effort was made to keep the focus on safety, with regular communications, briefings and face-to-face sessions. When incidents occurred colleagues were involved in investigations and

'sharing and learning' briefing notes were issued so all could learn and act to prevent repeats.

During 2013 colleagues were actively encouraged to get involved in health and safety improvement initiatives and a group of colleagues developed a 'Welcome Intervention' initiative and strategy for 2014. All are encouraged to intervene on safety matters with the message '*We welcome your Intervention!*'. As part of this initiative, a group of colleagues produced a short film, uploaded to [YouTube](#) to enable service partners and others, as well as colleagues, to view it.

BENEFITS

- Clear understanding of senior management's commitment to safety
- Safety culture enhanced as two organisations merged
- Continued active engagement with colleagues and service partners
- In August 2013 – 200 days serious injury-free days achieved
- A full-year combined lost-time injury frequency rate of 0.64.

554 **Behavioural safety – safety culture leadership****EPC-UK > Rough Close > Alfreton****DESCRIPTION**

Behavioural Safety is a journey that EPC-UK embarked upon a few years ago. With the number of incidents having been reduced through proven safety management, it became difficult to reduce these further and consistently. The road to full behavioural safety began with clear commitments to the workforce by way of actions from senior management seeking an injury-free workplace.

To demonstrate the commitment of senior management, EPC-UK became one of the pioneers in introducing the Health & Safety Laboratories Safety Climate Tool. This survey conducted in 2011 aimed to gain feedback from the entire workforce on the importance they placed on safety in management and how it could be improved. An action plan was created from the feedback which was enhanced in 2012 to include greater focus on drivers; a safety suggestion recognition system and the introduction of Safety Days. All have increased the level of workforce engagement

and trust.

In 2014 a second safety culture survey was undertaken, benchmarking the original survey against the company's performance and the wider industry. In addition, a formal initiative is being introduced by ADSL from Houston, Texas to develop Safety Leaders; create greater employee engagement and improve performance further.

BENEFITS

- DuPont STOP audits help senior managers to engage regularly with individuals
- Discussions take place at all levels on safety related matters
- Workforce actively encouraged to recognize hazards through point-of-work risk assessments
- Ongoing education on importance of reporting and leaning from near-misses.



visit www.safequarry.com for more details or email: info@safequarry.com



673 Implementing health and safety improvements

Hills Quarry Products > Swindon

DESCRIPTION

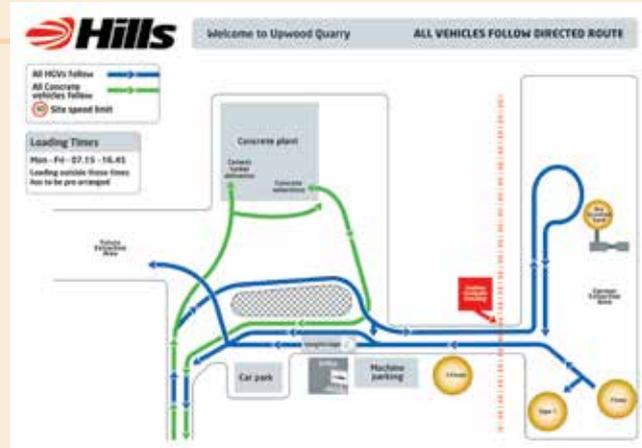
The senior management has implemented a number of new initiatives in the last 13 months to help improve the health and safety culture within the company.

Near miss reporting booklet and updated procedure –

Staff were given training plus a copy of a booklet designed to encourage and record near misses. The near miss procedure has also been updated. The revised procedure allows employees to report near misses directly to site managers, who record the preventative action and feedback to the employee. Details of all near misses are collated and included in a report to operational directors who review actions taken and follow up if required. The company sees this as a key tool in reducing accidents and maintaining zero reportable incidents.

Haulier site rules and traffic management maps – Sheets covering site rules and site-specific traffic management plans have been issued to all contract hauliers and drivers, as part of the site induction. The sheets supplement site signage already in place.

Employee health and safety committee – The company re-launched its employee health and safety committee. It meets quarterly and is made up of a cross section of the workforce, with plant operators, site managers and administrative staff. Directors are excluded to ensure free discussion. In addition to acting as a



forum to discuss and raise health and safety issues, the committee has clear objectives and targets to improve health and safety awareness within the company. The chair reports on each meeting to directors to identify concerns and make suggestions for improvements to be effectively escalated and discussed at senior level. Feedback is given to the committee on decisions taken.

BENEFITS

- Improved health and safety culture within company
- Improved reporting of near misses
- Improved sheeting of vehicles.

584 Interactive behavioural safety training roadshow

Breedon Aggregates > Company wide > Ethiebeaton

DESCRIPTION

Towards the end of 2012, the company wished to further influence their health and safety culture, to demonstrate management's commitment to improving safety with everyone looking out for each other, with a sustainable, interdependent approach. There was a need to complement the Visible Felt Leadership process having found that over 90% of incidents were caused by human error.

In January 2013 a health and safety roadshow visited all parts of the business, using an external training company. The Near Miss Reporting theme used, resulted in an increase of 200% and reporting has stayed at a consistently high level since. A full analysis is produced monthly, with a quarterly report send to the homes of all colleagues.

Following on from this success, drama led, tailor-made training was delivered on 'The Willing Worker' – highlighting a worker taking risks and cutting corners. All company employees attended the training day with a presentation from the Chief Executive and the Health and Safety Manager. All sub contractors were also invited to further engage them and push the behavioural safety



message to contractor partners.

Over the course of the week, nine half-day presentations were carried out across Scotland and the Western Isles. The scenario was based on two ground workers from a fictitious company, tasked with inspecting manholes. The actors engaged with the audience who ultimately influenced the final outcome.

BENEFITS

- Effects from the presentation had a lasting impression and effect
- Made individuals question their behavioural decisions.



541 **Vulnerable Road Users – driving the standard**



Lafarge Tarmac > National

DESCRIPTION

The frequency and severity of incidents between Vulnerable Road Users (VRU) and construction vehicles is unacceptably high, especially in London. Lafarge Tarmac has both campaigned to raise awareness of this issue and made a number of specific commitments to their fleet and contract hauliers.

Campaigning

- Supported the MPA development and subsequent promotion of Cycle Safety standards
- Helped customers to understand the complex variety of standards and equipment
- Engaging with the Transport for London Construction Logistics and Cycle Safety (CLOCS) working groups building a single standard
- Working with the Fleet Operator Recognition Scheme (FORS) to develop an internal vehicle audit process for contract hauliers aligned with the FORS standard
- Engagement and active communications through trade media, cycling campaign groups, the Metropolitan Police, CBI, Select Committees and other groups to increase awareness.

Commitments

- A retro-fit nationally of all contract vehicles with side under run bars and side sensor equipment
- Working towards every LT employed independent contract haulier meeting a minimum Bronze accreditation.
- Target to be first in industry where every LT delivery is made by a vehicle fitted with safety equipment and the driver trained to a minimum FORS Bronze accreditation.



BENEFITS

- A significant input to development of common industry standards
- First operator to be awarded a Certificate of Whole Fleet Compliance by TfL's FORS programme
- Removed barriers to independent hauliers reaching standards
- Reduced risks of road accidents involving VRUs
- Helped raise awareness of issue nationally
- Positive feedback from cycling groups and other key stakeholders.

671 **Road safety campaign**



Hills Quarry Products Ltd > Company wide

DESCRIPTION

Hills Quarry Products Ltd embarked on a major road safety campaign involving the following initiatives:

- Fitting all vehicles to fully conform to the MPA Cycle Safe standard, with forward facing cameras to be specified on new vehicles.
- Training both company employed and franchisee drivers to the MPA Vulnerable Road User standard.
- A programme of attendance at public events to help raise awareness of road safety issues
- An updated traffic management system which all drivers entering site sign up to

- A fully reportable near miss programme to reinforce the traffic management system
- Produced a quarterly Drive Newsletter on road safety issues.

BENEFITS

- Reduced risk of incidents involving other road users
- Common standard of safety across the business
- Improved traffic management on-site
- Near miss system identifying where changes need to be made to improve safety
- Raising awareness of issues with other road users
- Positive feedback from drivers to the initiative.

visit www.safequarry.com for more details or email: info@safequarry.com



623 Raising the industry profile in road safety

CEMEX > Logistics Cement and Aggregates



DESCRIPTION

CEMEX has been pro-active in driving a wide range of road safety initiatives particularly with regard to cyclist safety. With an increasing number of fatalities involving cyclists, CEMEX decided to organise a round table event to provide a platform to debate and discuss workable industry solutions.

The London round table event - 'Making LGVs safer for cyclists' featured Dr Stephen Summerskill and Dr Russell Marshall of Loughborough University discussing the latest scientific research into blind areas around large vehicles. CEMEX presented the results of trials into different cyclist safety features. The event was well attended by industry, experts and pressure groups.

This event was in addition to the continuation of cyclist awareness 'Exchanging places' campaigns and other key events such as:

- Department of Transport – Evidence to advisory panel on vehicle safety technologies
- Transport for London Construction Logistics and Cycle Safety group
- Institute of Traffic Accident Investigators – supported a crash test day event

- EU parliament cycle safety lobby provided vehicle and expert support
- Provided keynote speakers for Boris Johnson cycle safety campaign and at Met Police events
- Supporting several national TV productions including the BBC's 'One Show'
- FTA – Transport manager – UK wide seminars – Provided resources on cycle safety

BENEFITS

- Provided leadership to the construction sector on cyclist safety
- Shared key research enabling informed debate on key issues
- Improved understanding of key issues from different perspectives
- Helped influence a consistent approach amongst customers and authorities to conform to necessary safety requirements and standards
- Demonstration of CEMEX vision of 'Being the Best' for families
- Demonstration of MPA's 'Safer by Sharing' scheme.

559 Setting industry standard for road safety

FM Conway Ltd > Dartford



DESCRIPTION

A key recommendation in a Transport Research Laboratory report commissioned in February 2013 was "adherence to a nationally recognised standard on work-related road safety such as the ISO39001 standard on road traffic safety management".

FM Conway began implementing the standard which was formally certified in January 2014 - the first UK company to achieve the standard.

ISO39001 is a management system that enables the company to identify the risks of its interactions with the road traffic network; evaluate control measures and improvement opportunities and monitor and measure the improvements realised. It provides a quantifiable system that informs the company how best to improve the safety of its operations.

A cross-departmental working group identified the hazards its activities pose to other road users and defined nine risk categories with practical improvements to mitigate them. The findings were codified and developed into a formal road safety manual and system. These were ratified by BSI during December's 12-day audit.

The company's teams constantly review and update its management processes and the working group meets quarterly to ensure that all new and evolving aspects of road safety are embraced by the system.

The system has been recognised by high-profile industry awards and the company was awarded Gold status in the Fleet Operator Recognition Scheme (FORS).

BENEFITS

- 60% decrease in accidents in the first three months the system was operational
- The awards endorse the benefit of the scheme to all, both within and outside the company.



656 **Black box recorders fitted to vehicle fleet****Moreton C Cullimore > Transport Department > Whitminster****DESCRIPTION**

Most of the company's fleet of tipper trucks has been fitted with 'black box' cameras to improve the safety of drivers and other road users. Fitted to the truck's windscreen, the camera shows a view both towards the road and towards the driver. Whilst the drivers' initial reaction was of 'big brother' watching, the feedback is now good, the cameras having demonstrated that they are as much for the drivers' benefit as for other road users. A tailboard-fixed sign reminds road users of the existence of the camera and a further

sign in the cab serves as a reminder to the driver.

Recorded footage can be played back to the drivers through a computer or via a laptop.

BENEFITS

- The recordings can be used for driver assessment
- Images can be used in the event of an RTA - to prove fault
- Drivers recognise the benefit to them and to other road users.

535 **Ensuring the safety of children within our community****Myers Group > Huddersfield****DESCRIPTION**

Since September 2014, the Myers Group has presented to around 1000 children between the ages of 8-10 from 11 schools in the Kirklees area, working with an organisation who deliver specialist services to schools including cycling proficiency. As part of this, Myers Group were asked to assist in raising awareness of the risks to children on our roads.

The presentation uses cartoons, serious film, photos and some shock tactics to gain the children's attention and covers issues relating to blind spots, points raised from the highway code and the importance of helmets, hi-viz clothing etc.

The training ends with a practical session with two trucks on-site. One child wears a hi-viz vest, four children go into the cab and four stand immediately in front of the vehicle showing how they can only be seen through the forward facing mirror, demonstrating how the child in hi-viz is so much more visible than the others.

The standard blind spot mat is used to show how far away from the cab they need to stand, to be seen.

The second vehicle is fitted with a near-side camera, again using the blind spot mat, with a parked bike which cannot be seen through any of the mirrors, but is clearly visible on the camera monitor.

BENEFITS

- Raise awareness of general road safety at a young and impressionable age
- Reduce the likelihood of children being involved in traffic related incidents
- Through the children, hopefully raise awareness parents of these issues
- Demonstrate commitment of the company to the local community.





579 **Improved traffic management system**

Brett Group > Cliffe



DESCRIPTION

BLBP Cliffe is a complex of three concrete block paving factories located on the same site. Historically the site was heavily congested with queues of HGVs outside the site on narrow lanes creating hazards for other road users. On-site, there were problems with stock management that led to long waiting times and to HGVs having to make multiple pickups across the site. Additionally, the route for HGVs on the site crossed over key pedestrian routes with the need for two way traffic in a confined space.

In consultation with the site team, changes were made to the yard system by examining and improving stock holding principles, changing entrance and exit points, re-routing traffic and pedestrian routes and enhancing pedestrian protection measures. Specific improvements included:

- New entrance with barrier eliminating both queuing on blind bend and cars mixing with HGVs entering site.
- Creating a vehicle-free pedestrian route from car park.
- Pager system to call in HGV drivers – minimizing pedestrians in waiting areas
- Revised stock locations minimising FLT travel distances when stocking/loading
- One way system for HGVs with full width roadways
- Designated walkways creating pedestrian segregation throughout site



- Permit system for pedestrians needing to deviate from walkways
- Designated HGV loading bays
- Improved signage
- Creation of new exit point with barrier
- Installation of a sheeting/load checking platform prior to final exit point

BENEFITS

- The site is safer and more efficient
- Traffic and personnel are segregated
- Fewer interactions between FLT and HGV
- Safe access to loads
- Reduced FLT travel distances
- Reduced loading errors
- FLT fuel use down by 12%
- Vehicle turnaround time improved by 28%
- Positive feedback from staff and customers



545 **Automatic Tyre Inflation System (ATIS)**

Lafarge Tarmac > Cement and Lime



DESCRIPTION

Semi-trailer tyres are the most neglected wheel position on a vehicle, particularly those on the near-side rear. Research shows that damaged tyres account for over 50% of all roadside service calls. A puncture often has to be attended to in an unsafe situation placing the tyre fitter and others at risk. Tyre blow-outs and punctures will also impact on customer service.

Lafarge Tarmac has developed an Automatic Tyre Inflation System (ATIS) which maintains correct tyre pressure levels. This works by providing high-pressure air to each tyre from an on-board compressor fed from the truck's existing high-pressure air system.

When the ATIS registers a low tyre pressure, the system informs the driver. With a slow puncture,



the compressor maintains the tyre pressure enabling the driver to complete his journey. If more serious, the driver can stop safely and seek attention.

BENEFITS

- Safer vehicle and improved performance
- Less potentially unsafe repairs at roadside for tyre fitters
- Fewer blow-outs and consequent reduction in vehicle damage
- Even tread wear, less tread damage, better grip, longer tyre life
- Improves tyre safety performance and traction during driving
- Driver awareness of tyre pressure status, visually and audibly
- Improved fuel efficiency, reducing CO₂ emissions
- Improved reliability and service to customers
- Fewer emergency roadside assistance incidents
- Reduced costs of operation
- Easy to install system - can be retro-fitted to most LGVs

612 **Small vehicle route****Hope Construction Materials > Holmehall Quarry****DESCRIPTION**

After a number of safety near hits regarding traffic management issues between small vehicles and heavy mobile plant and the fatal accident at Pennyvenie, the decision was made to design and build a specially designated small vehicle route which allows for LGVs to travel safely to the Primary Quarry processing area, fully segregated from all heavy plant on-site.

BENEFITS

- Designated for route for LGVs minimises risk of near hits/accidents/incidents

587 **Amber warning beacon reminder****CEMEX > Hyndford Quarry****DESCRIPTION**

Site staff reported, via the quarry near miss hazard alert system, that on a number of occasions, certain road-going vehicles were not always activating their amber warning beacons when on-site. In most cases, it was down to forgetfulness and usually not a deliberate violation of site rules.

The solution was a conspicuous sign, placed at the approach to the main quarry weighbridge with a sensor to pick up the vehicle movement which automatically set off the amber flashing beacons on the sign itself. When vehicles approach the quarry weighbridge area, the driver is alerted to activate the vehicle beacons.

This simple but effective visual reminder of a tried and tested standard quarry control measure has worked well with much fewer instances being reported of vehicles operating without activating their beacons.

BENEFITS

- Drivers receive reminder at crucial point of entering working site
- A safer working environment for all on-site especially in poor weather
- Stimulates positive thinking in relation to health and safety rules
- Simple but effective visual aid, easy to produce at minimal cost
- System works in darkness and is not reliant on daylight
- Avoids the need to approach vehicles to remind drivers of site rule

640 **Mirror configuration mats****Northstone (NI) Ltd > Coleraine****DESCRIPTION**

At a regular employee involvement meeting, several drivers voiced concerns regarding blind spots when using their mirrors for normal driving and reversing procedures.

Rubber mats with hi-vis edging were sourced and a method of checking mirrors developed, based on the location of mirror blind spots as reported by lorry drivers. With cycle tracks, junctions, and traffic lights in mind, a two metre zone across the front and down the side of the lorry was identified as a major blind spot. Furthermore, mirrors could be adjusted quickly and easily - a simple one-man task.

Trials were carried out with very positive feedback and the

initiative was rolled out via a safety alert and driver training. An adaptation of the rubber mat is planned for use on all dispatch locations by painting thermoplastic lines on the ground to the same dimensions as those of the mat. The cost-v-risk ratio is minimal.

BENEFITS

- Correct alignment of mirrors
- Quick and easy to use
- Minimises risk of blind spots on lorries
- Reduces likelihood of collisions
- Reduces likelihood of expensive PL claims.

visit www.safequarry.com for more details or email: info@safequarry.com



540 'Driving Safety' initiative

Lafarge Tarmac > National

DESCRIPTION

'Driving Safety' is a cross-business transport safety initiative, established following a CEO incident review which identified that a more holistic approach to transport safety was needed. The approach considered all the parties involved in a safe delivery including operations (loading the vehicle), vehicle owners and drivers and customers.

The initiative brings together the wide range of skills and experience of all transport professionals within a framework that makes it easy to identify, target and drive for results.

The 'Driving Safety' framework breaks down the delivery of product to customers into six key areas:

- Owner
- Driver
- Vehicle
- Loading
- Journey
- Customer

Against each of these, transport professionals have identified a vision of 'what good looks like' and how it can be measured. Launched across the business in September 2013, each transport team identified the roadmap of actions that would lead to excellence in each of the six key areas.

The roadmap has led to 154 individual 'pledges' of commitment, each assigned against one of the six key areas to ensure balance is maintained, covering the entire delivery journey. Actions have identified areas of improvement from hauliers' and drivers' involvement, to skills refreshers for operations teams. The larger national actions focus on common goals such as driver inductions, cyclist safety, mobile phone policy and incident reporting/recording.

Outputs of the project are measured through KPIs that monitor leading indicators which should lead to improvement in standards (such as FORS compliance of hauliers). Lagging indicators such as overall transport incident frequency rates help to identify and monitor transport safety performance.

BENEFITS

- Improved collaboration from transport teams with a pooling of expertise
- Initiative works both locally and nationally to cover whole transport community
- National actions help deliver a powerful message - transport safety is at the top of the agenda.

659 Securing loads – 'Secure it right, first time, every time!'

Wienerberger > Sandtoft

DESCRIPTION

Sandtoft use contract hauliers with the responsibility to secure loads safely, left with the driver.

The company questioned its hauliers and other distribution depots on the practice of safe loading using various methods and developed a set of minimum requirements for load security for both on-site and off-site and on the public highway.

A document was produced with the various scenarios of different types of securing loads clearly illustrated. The guidelines apply to all drivers and are applicable to both Sandtoft's own and customer collection vehicles. Random checks are carried out to ensure compliance. The guidelines state:

- Nets are disallowed unless they can be put in place from the ground
- Climbing on the trailer is banned from site
- Straps are to be used along with pack edging protectors to secure pallets

- Packs should be reached using a simple extendable fork positioned under the edge protector under loose straps which are then tensioned.

The requirements are strongly enforced and drivers know that failure to comply may result in disciplinary action with the potential to be banned from all sites.

BENEFITS

- Drivers understand the reason for the guidelines
- Minimises the risk to themselves and the public
- All drivers use the same proven methods of securing loads
- The dispatch safety log used to confirm the driver has secured load safely
- Visible proof of the company's adherence to good health and safety practices.



Occupational Health and Well Being sponsor

626 'Stop dust before it stops you' – Animated training video

Quarries Partnership Team (QPT) > National

DESCRIPTION

The Quarries Partnership Team (QPT) comprises members drawn from across the quarrying industry including quarry operators, TUC, trade associations and training bodies, and is co-ordinated by the Health and Safety Executive. Its primary role is to raise awareness of the risks associated with dust and respirable crystalline silica with measures for its reduction.

QPT commissioned a short training film to help raise awareness of the issue of dust and potential ill health effects. Comprising a series of quarry-based activities, the video features an animated quarryman who does everything wrong. The exploits of this hapless character are interspersed with high quality real-life sequences of how it should be done.

The video emphasises how to avoid both the immediate and long-term adverse health effects of uncontrolled dust in the workplace and the consequences for a worker's life. It is aimed for use on-site by those with the responsibility for health and safety in the quarrying industry, with the target group to include quarry operatives, maintenance personnel and contractors. It provides an accessible and engaging way to demonstrate how the correct behaviours can reduce exposure of workers to silica dust within the quarrying industry.

The video can be viewed via the Safequarry website via the video library.

BENEFITS

- Short, simple and clear messages
- Reinforces other training
- Easily accessible via safequarry.com
- Evidence shows that it has already been used extensively by operators
- The use of humour, the tone and structure help effective communication.



549 Protective film on driver's cab window

Smith & Son (Bletchington) Ltd > Transport Department

DESCRIPTION

Following one of the company's drivers being diagnosed with skin cancer on his neck, Smiths Bletchington considered whether this might be connected to the driver's exposure to sunlight whilst driving. Following research, they found reports from the US and Australia that made a link between full-time drivers and

occurrences of skin cancer on the side of their body nearest the side window.

The company found that standard vehicle glass provides little protection against the strongest UV light on side windows, and no vehicle manufacturer or supplier offered alternatives. Working with a local vehicle window repairer, a clear laminate film that provides UV protection was identified - Johnson's Window Film Museum UV clear.

So far, a third of the vehicle fleet has been fitted with the laminate. This work is undertaken when a vehicle is in the workshop for MOT or other work. In addition, awareness of skin cancer has been increased and sunscreens made available.

BENEFITS

- Driver's risk of skin damage from UVA exposure reduced
- Laminate is totally clear so does not impair vision
- Laminate does not contravene any vehicle manufacturing standards or window tinting laws
- Easily fitted at cost of circa £80 per vehicle
- Staff pleased by the company's response to this issue.



visit www.safequarry.com for more details or email: info@safequarry.com



619 RPE programme to prevent exposure to airborne silica dust

Marshalls PLC > Cromwell – Natural Stone Processing

DESCRIPTION

Marshalls processes Yorkshire Sandstone for building materials, paving and masonry products. Large sandstone blocks are cut to size and finished within the saw shed using a number of different types of mechanised saws. Water suppression is used as the primary exposure control strategy for airborne silica. The sandstone is fine grained with a silica content in the range 70–90%. Personal exposure monitoring has yielded concentrations in excess of the RCS Workplace Exposure Limit (WEL 0.1mg/m³). Initial improvements did not reduce personal exposure of RCS to below the WEL.

With approximately 70 people routinely working within the saw shed moving between different machines, we needed to urgently address the issue of airborne silica. A meeting was organised and the following actions were agreed and all signed up to the programme:

- All employees received information and training on hazards associated with Respirable Crystalline Silica and the use/wearing of RPE and chose equipment to suit, based on the type of work undertaken, facial hair and general comfort
- For full or half face respirators a face-fit test was carried out
- All the equipment has a monthly maintenance schedule to include cleaning and filter replacement. Monthly reports will be generated and filed.
- Routine dust monitoring measures airborne contaminants within the saw shed. Findings are discussed and any actions implemented
- Mandatory wearing of RPE where the WEL for Respirable Crystalline Silica is exceeded
- All employees attend annual health surveillance as per the group policy
- RPE programme endorsed by the HSE whose DVD 'Introducing and managing RPE in the workplace' follows the implementation.

BENEFITS

- All employees co-operate fully with the wearing of RPE from the outset
- Exposure levels of employees is now controlled
- Employees take responsibility for cleaning and inspecting their mask before use
- Clear ground rules (RPE Policy) cover when/where masks should be worn
- Rules applied to all employees, contractors and visitors.





649 Tablet solution for the contracting industry



Hanson Contracting > National

DESCRIPTION

Contract surfacing is a transient operation with the workforce regularly changing sites, placing high demands on the business to achieve health and safety excellence. Numerous health and safety paper-based procedures used by Hanson Contracting were becoming more of a barrier than an enabler. Working in integrated teams with a wide range of challenging targets to achieve it was recognised that the use of electronic data and sharing information using modern technology was essential.

Discussions with the workforce, initiated by Hanson's Safety Behavioural Programme, highlighted these areas for improvement. A project team including foremen and safety representatives, identified the use of an adapted tablet as a means of addressing these issues which would enhance workforce and contractor safety on-site.

The iPave tablet was developed as an on-site solution for capturing photographic, video, audio and GPS location records of incidents and activities on-site, in real-time. Additionally, iPave records plant inspections, near hits, dynamic risk assessments, COSHH assessments, method statements and daily site walkthroughs.

The iPave tablets were rolled out to selected sites, on a trial basis, and feedback was encouraged from the surfacing operatives.

Using feedback from the trial, iPave was further developed and improved before rolling out across the country. The roll out was supported with iPave training sessions which were delivered with the assistance of foreman and safety representatives.

The iPave project was led, developed and championed by the workforce.

BENEFITS

- Replaced a highly paper-based health and safety culture
- A safer, better informed and more efficient work force
- A 50% increase in Near Hit Reporting since its introduction
- The ability to make real-time recordings of dynamic risk assessments
- £28K savings in photocopying, pre-printed stationery and process efficiencies
- Facilitated the implementation of techniques such as Visual Management and 5S's
- Improved the identification of risks and hazards on-site
- Provided access to real-time photo/video plant failure information
- Workforce engagement in the process enhanced the safety culture.

655 Health and safety week



Hanson > National

DESCRIPTION

Hanson ran a highly successful health and safety week involving employees across all parts of its business. Activities were designed to be engaging, thought-provoking and encourage participation – while also enhancing the skills of the workforce. Importantly, the event also led to action – both throughout the week and beyond.

Each day was based around a specific theme and supported with resources such as toolbox talks, podcasts, a home safety website and posters. This approach ensured that a consistent set of key messages was delivered across the business. The main themes were:

1. 'Be safe at Hanson' included training on the importance of isolation and machine guarding
2. 'All be healthy' looked at personal health issues such as adopting a healthier lifestyle and how to deal with work-related stress
3. 'Be safe at home' introduced a range of important home safety concepts
4. 'Take a minute – Save a lifetime' introduced a new risk assessment system for drivers to use when loading or unloading
5. 'Friday and beyond' a recap of the week and the launch of mobile phone procedures.

Importantly, the programme was designed to go beyond the workplace and reach out to employees' families. Particular efforts were made to involve all the company's drivers - including hauliers and franchisees.

The aims of the health and safety week included:

- To empower employees to put safety first
- To develop a link between safety at work and at home
- To encourage employees to consider a healthier approach to life.

In addition there were some specific goals:

- To tackle an increasing trend of LTIs relating to drivers at customer sites and,
- Ensure the safe use of mobile phones on-site.

BENEFITS

- High levels of participation achieved
- Excellent feedback
- Declining LTIs
- On-going internal conversation on health and safety
- Involving the family reinforces a safety culture at work.

visit www.safequarry.com for more details or email: info@safequarry.com



568 **Creation of a European guide for Pedestrian and Traffic Safety**

Sibelco UK > Brookside Hall



DESCRIPTION

Sibelco Europe established a working group with representatives from across the European business to develop a Good Practice Guide on the management of the interaction between mobile plant and pedestrians. The working group drew on experience from colleagues within Russia, Belgium, Spain, Netherlands, Norway and United Kingdom. Job functions ranged from operators, site managers, safety specialists and senior managers.

Social media was used to canvas opinion of the work of the group and to capture opportunities for inclusion of good practice ideas from a wider audience. The team functioned through postings on the My Sibelco platform (social media), conventional email and WebEx communications which allow the sharing of real time information in a virtual meeting environment.

The completed project was refined from the initial brief following the consultation within the working group and wider business audience. The completed guide focused on: planning of walkways, identification of walkways, crossing points, loading points, visibility aids and housekeeping. The guide also included a self-assessment tool and action plan for sites to prioritize improvements based upon risk.

BENEFITS

- Common set of standards applied across the business
- Action plans leading to safer working environment at all sites
- Approach gave credibility to outputs across group
- Best practice shared across group

616 **Emotional and mental health awareness campaign**

Colas Ltd > National > Rowfant



DESCRIPTION

Worker involvement often focuses on the safety side of the industry and important issues surrounding employee health and wellbeing are put in the 'too hard to deal with' box. The company investigated the stresses employees are exposed to and decided to concentrate efforts in 2013 on emotional and mental wellbeing. Colas has supported and promoted Men's Health for a number of years, however this campaign focused on issues that could affect all Colas employees – both male and female.

Feedback was gathered from employees who attended the company's emotional wellbeing workshops and a business case was put to the board to secure funding to develop the campaign and develop workshops across all company locations.

The focus of the campaign was to raise general awareness of emotional and mental health issues which can affect 1 in 4 of us in our lifetime. Early in 2013 a communication programme was developed. Posters were distributed to all Colas locations produced by the mental health charity Mind, under the banner 'Time to Talk'. The aim was to spark early interest in the subject. Social media was used to raise interest among both employees and the wider community by publishing short articles on work carried out throughout the campaign.

In June, Colas' Mental Health Newsletter was distributed across the businesses via the Colas SA Global Safety week and employees were invited to discuss the topics raised in small groups and give feedback. Subjects included 'Men's Health Week; stress and coping methods; talking about your problems; mental health workshops; stories from employees who bravely shared their experiences and information of where to seek help.

The newsletter was also delivered to employees' homes, published on Connex and the external website. In June 2013 the company piloted Emotional and Mental Health Workshops in its Newcastle Depot. These were developed and delivered by 'If U Care Share Foundation' a family run charity who focus their efforts on breaking down the barriers and stigmas attached to mental health and encouraging positive attitudes. The pilot workshops were extremely successful and feedback was excellent - further were run later in the year. Plans are in place to cascade these workshops to other company locations during 2014.

BENEFITS

- Improvements will be measured in general wellbeing through the employee survey
- Changes in employee sickness records will be assessed to gauge success of the campaign.



558

Remote worker conference calls EPC-UK > Rough Close > Alfreton



DESCRIPTION

EPC-UK Services operate explosive depots, explosive trucks, drilling and blasting across the UK and often working in the most remote quarries. Sharing of good ideas and best practice as well as keeping employees informed is extremely challenging since employees are often away from home for weeks at a time.

Following an internal 'employee good ideas promotion' a shotfirer suggested a fortnightly conference call involving all employees within each operational area. This has been implemented. A simple agenda was introduced to capture all aspects of the business:

- Safety contact (pressing issue of the day)
- Other Health, safety, security and environment issues

- Operational issues past/forthcoming
- Customer issues/leads
- Company news/performance (Supervisors/managers)

The responsible manager chairs the call and ensures that a relevant safety topic is discussed and good ideas are shared by all. Minutes are posted on the company intranet, with actions being approved and sanctioned by the management team.

BENEFITS

- Faster solutions provided from operatives
- Employees helped to keep engaged
- Safety environment and security concerns reach all staff more frequently
- Improved safety performance and industry goal of Zero Harm.

598

'Please Look After Me' campaign CEMEX > National



DESCRIPTION

Most people do not understand the consequences of an accident until it happens to them! So part of educating the workforce is to get them to understand the potential effect of an injury, not just on the injured party but on those around them - their family, friends and colleagues. It is part of the motivation to stay safe if people truly understand the impact an incident can have.

CEMEX culture is built around being best for employees and their families, the number 1 Safety Essential is 'Look After Yourself and Each Other'.

In 2013 the company worked with several injured employees asking them to put into words the consequences of incidents. They were tasked to write a letter to their colleagues describing not just the injury and treatment, but the knock on effect on those around them.

The purpose of the letters was to implore colleagues to look after each other, to intervene if someone behaves unsafely and to work

together to ensure workplaces are safe. The conclusion was that if someone had intervened in their situation then they may not have ended up suffering the consequences they did.

The letters were distributed to their colleagues together with a sticker which they were encouraged to put on their safety helmet to show they had read the letter. Others were challenged if they were doing something unsafe and all were committed to look after their own safety and those around them. The sticker 'Please Look After Me!' emphasised the key message.

BENEFITS

- Campaign has helped to reinforce the Being Best for Employees and Families Strategy
- Led to increased positive interventions and improvements in health and safety
- Lowest recorded Lost Time Injury frequency and reductions in minor incidents in 2013.

650

Foreman's inspection of hired-in mobile plant Hanson > Criggion Quarry

DESCRIPTION

Prior to allowing any new item of mobile plant to be used on-site, a thorough examination, not dissimilar to an MOT test, is carried out by the mobile plant fitter. This applies to plant brought in by a contractor; bringing in a machine for his own work; or a hired machine for our own use.

This examination goes far further than the requirements of the daily inspection carried out at operator level, since the company has no way of knowing if there are any underlying faults from this initial type of inspection. Whilst the daily inspection is acceptable for an operator checking his regular machine, it is considered inadequate for a machine our company has no knowledge of.

Over the past three years serious faults have been discovered that have been repaired before the machine is allowed to work, such as worn suspension bushes, faults in power steering systems, worn

tie bar bushes as well as the obvious blown lights, broken horn and cracked and missing mirrors.

By checking that all hired-in mobile plant is fully compliant with our high standards and that the company supplying or operating the plant is aware of the checks carried prior to work commencing, we can be confident that we have the safest and efficient plant operating at the quarry.

BENEFITS

- Confirms all hired-in mobile plant is fully compliant with the company's standards
- Supplier or operator is made aware of checks carried prior to work commencing
- Ensures maximum safety and efficiency for plant operating at the quarry.

visit www.safequarry.com for more details or email: info@safequarry.com

	Title	Page number	Entry number	Asphalt	Quarry	Concrete products	Cement & lime	Company wide	Contracts	Dust	Maintenance	Mobile plant	Transport & delivery	Incident alerts	Safer processing	
BITUMEN, ASPHALT & CONTRACT SURFACING	Traffic Safety Wand for banksmen	4	551	•					•			•	•			
	Installing Fire Fan on sealed asphalt plant	4	605	•					•	•	•				•	
	Mixer drip door	5	536	•							•					
	Installing interlock system on chipper guard	5	583	•							•					
	Industry first in skip winch braking systems	6	543	•											•	
	CCTV lens cleaning from ground level	6	609	•							•				•	
	RAP chute monitor	7	648	•							•				•	
	Designated off-loading area for bitumen tanker deliveries	7	589	•									•		•	
	Tail drum guard and platform	8	643	•							•					
	Safer bitumen through effective visual and sound management at point of delivery	8	532	•									•			
	Burner ram for safer cleaning	8	642	•							•					
	Fire box to house critical information	9	660	•										•		
Safety locking device	9	618	•									•				
CONTRACTORS SAFETY	Web based computer induction system	10	592				•		•							
	Asphalt collect customer safety initiative	10	636	•					•				•			
	Reducing contractor risk	11	555						•		•					
	Contractor safety	11	637						•		•					
	Acid wash station	12	542				•		•		•		•			
	Fitters' safe working area, first aid room and emergency equipment store	12	586	•					•		•					
	Combined permit office and isolation station	13	593				•		•		•					
	Contractor induction assessment	13	674						•		•					
ENGINEERING INITIATIVES	Return roller bracket for conveyors	14	548	•							•					
	Installation of airbags for additional overhead protection	14	590				•				•					
	Plasma cutting trolley	15	666			•					•				•	
	Confined space improved access	15	606	•							•					
	Reduction of confined space at the quarry	16	581	•							•				•	
	Removable working platform	16	608	•							•					
	Blowbar vibrator unit	17	647	•							•					
	Access platform for changing primary crusher jaw	17	560	•							•					
	Top Hat' rotary crusher concave replacement safety equipment	17	670	•							•					
	Unicone tail compliance tool	18	537				•			•			•			
	Maintaining minimum bund heights	18	627	•											•	
	T beam wire retaining bars	18	667			•									•	
BEHAVIOURAL SAFETY, SAFETY CULTURE & LEADERSHIP	New concrete sleeper de-moulder	19	591			•									•	
	Helping customers to avoid working at height during offloading	19	665			•							•			
	The Switch Programme – Mobile phone campaign	20	530					•								
	Site Safety Transformation – a team effort	21	577			•							•		•	
	Health and safety days	21	596					•						•		
	Developing a HOPE Safety Culture	22	635					•								
	Behavioural safety – safety culture leadership	22	554					•								
	Implementing health and safety improvements	23	673					•					•	•		
	Interactive behavioural safety training roadshow	23	584					•						•		
	REDUCING OCCUPATIONAL ROAD RISK	Vulnerable Road Users – driving the standard	24	541					•					•		
		Road safety campaign	24	671					•					•		
		Raising the industry profile in road safety	25	623	•		•							•		
Setting industry standard for road safety		25	559					•					•			
Black box recorders fitted to vehicle fleet		26	656					•					•			
Ensuring the safety of children within our community		26	535					•					•			
TRANSPORT INITIATIVES	Improved traffic management system	27	579			•							•			
	Automatic Tyre Inflation System (ATIS)	27	545				•						•			
	Small vehicle route	28	612	•								•	•			
	Amber warning beacon reminder	28	587	•								•	•			
	Mirror configuration mats	28	640										•	•		
	'Driving Safety' initiative	29	540										•	•		
	Securing loads – 'Secure it right, first time, every time!'	29	659			•							•			
OCC. HEALTH & WELL BEING	'Stop dust before it stops you' - Animated training video	30	626					•		•						
	Protective film on driver's cab window	30	549	•	•								•			
	RPE programme to prevent exposure to airborne silica dust	31	619			•				•						
WORKER INVOLVEMENT	Tablet solution for the contracting industry	32	649	•					•		•	•	•	•		
	Health and safety week	32	655					•			•		•	•		
	Creation of a European guide for Pedestrian and Traffic Safety	33	568					•				•	•			
	Emotional and mental health awareness campaign	33	616					•								
	Remote worker conference calls	34	558					•								
	'Please Look After Me' campaign	34	598					•								
	Foreman's inspection of hired-in mobile plant	34	650	•					•			•				

Health & Safety working groups

Lime

David Brown	Lhoist (Steetley Dolomite) Ltd
Kye Brown	Singleton Birch Ltd
Julian Clayton	Lhoist (Steetley Dolomite) Ltd
Paul Geaney	Lhoist UK Ltd
Andrew Jones	Lafarge Tarmac
Viv Russell	Lafarge Tarmac
Ian Gibson	Mineral Products Association

Safer by Partnership

Kye Brown	Singleton Birch Ltd
Ian Gibson	Mineral Products Association
Roseanne Hayward	MPQC (Awarding Body)
Cedric Hollinsworth	MPQC
David Jones	Response Engineering
Peter Luxmore	CEMEX UK Operations
Bob Robinson	Hope Construction Materials
Rosamund Seal	Aggregate Industries
Andy Smith	Lafarge Tarmac
Richard Solly	Rema Tip Top Industry Ltd
Andrew Taylor	CEMEX UK Operations
Mark Tyrer	Hanson Aggregates

Occupational Health

Craig Buttenshaw	CPI Mortars Ltd
Peter Luxmore	CEMEX UK Operations
Rosamund Seal	Aggregate Industries
Kevin Stevens	Mineral Products Association
Steve Ford	Sibelco Europe

Cement

Mike Cowell	Hope Construction Materials
Graham Dunwell	Hanson UK
Jody Guilfoyle	Lagan Cement Company
Miguel Lara	CEMEX UK Cement
Alison Shenton	Hope Construction Materials
Mark Underwood	Lafarge Tarmac
Meirion Webber	Kerneos Limited
Ian Gibson	Mineral Products Association

Contract Surfacing

Stephen Barker	CEMEX UK Materials
Phill Beaumont	Colas Limited
Ian Darroch	Hanson Asphalt & Contracting
Paul Kidd	RIS National Ltd (Eurovia)
Keith Merrie	Aggregate Industries
Geoff Shearn	J Wainwright & Co Ltd
Pat Sheehan	Colas Limited
Darren Stokes	Tripod Crest Ltd
Dean Watkin	CRH Plant
Glyn Williams	Lafarge Tarmac National Contracting
Ian Gibson	Mineral Products Association

Plant and Processes

David Brown	Lhoist (Steetley Dolomite) Ltd
Paul Denby	Aggregate Industries
Martin Lever	CEMEX UK Materials
Bob Robinson	Hope Construction Materials
Kevan Shovlar	Hanson UK
Andy Smith	Lafarge Tarmac
Richard Solly	Rema Tip Top Industry Ltd
Ian Gibson	Mineral Products Association

Bitumen

Matt Avery	Aggregate Industries
Jason Barker	CEMEX UK Materials
Ian Burrows	OEurovia Roadstone
Gary Dowell	Hanson UK
Mike Linley	Mineral Products Association
Arnold Marsden	Lafarge Tarmac
Andrew Williams	Nynas Bitumen

Transport Working Group

Nick Elliott	Hope Construction Materials
Jeff Stobbart	Aggregate Industries
John Anderson	Hanson
Sean McGrae	Lafarge Tarmac
Ben Street	mqp
Dominic Day	Day Group
Paul Needle	Smiths Bletchington
John Dargie	Myers Group
Robert Wilkinson	CEMEX
Peter Parle	FM Conway
Tom Clubb	Brett Group
Trish Jagger	MP Skills
Kevin Stevens	Mineral Products Association

Leadership and Workforce Engagement

Chris Leese	CEMEX
Lesley Hall	Brett Group
Mike Cowley	United Asphalt
Nigel Clamp	Hanson
Andrew Cox	FM Conway
Andy Price	Sibelco
Ian Scott	Aggregate Industries
Tyrone Partridge	Day Group
Kevin Stevens	Mineral Products Association

Performance Statistics

Paul Lacey	Hanson
Tyrone Partridge	Day Group
Andrew Taylor	CEMEX UK Operations
Carl Wignell	Aggregate Industries



trusted to deliver™

babcock

Working with you towards Target Zero

Babcock International Group employs over 28,000 people across the globe - within sectors that can be inherently dangerous.

In everything we do, our priority is on the health and safety of our employees and those working alongside them. Best practice, innovative programmes and experiences are shared across the Group and with our customers and suppliers.

Within the mining & construction sector, safety intervention is one of the most critical aspects of Babcock's unique approach to fleet management from ensuring a safe environment through to carrying out the

correct risk management system processes and putting effective safety reporting mechanisms in place.

We focus on tackling safety issues at source, carrying out risk assessments to minimise risks and reduce the potential of safety incidents.

Partnering with Babcock is so much more than transforming your fleet performance – it's about working with you to ensure everybody returns safely to their home every night.



PRIME
Professional Recognition
In Mineral Extraction

For more information on Babcock's approach and services within the mining and construction sector, please email:

mining.construction@babcockinternational.com
or call +44 (0) 121 227 7400

www.babcockmining.com



Register now for FREE Safequarry App

The App to access the health & safety hub for the mineral products industry

Instant access wherever you are to:

- Incident alerts
- Industry guidance
- Safety videos
- Latest safety innovations
- Toolbox talks

Apple iOS Android



Apple = <https://itunes.apple.com/us/app/mpa-safequarry/id932035954?ls=1&mt=8>

Android = https://play.google.com/store/apps/details?id=com.app_mpa1234.layout

For info call MPA +44 (0)20 7963 8000



Mineral Products Association

Gillingham House
38-44 Gillingham Street
London SW1V 1HU

Tel 020 7963 8000
Fax 020 7963 8001
info@mineralproducts.org
www.mineralproducts.org
www.safequarry.com

The Mineral Products Association is the trade association for the aggregates, asphalt, cement, concrete, dimension stone, lime, mortar and silica sand industries.

Written by Daybreak Communications Ltd, Winchester
Designed by Generate UK
Managing editor: Kevin Stevens, MPA

Printed on paper and board which is totally chlorine-free and produced from pulp from sustainable forests.

