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| **Topic entry (tick boxes that are applicable) 1 [ ]  2 [ ]  3 [ ]  4 X 5 [ ]  6 [ ]  7** **[ ]  8** **[ ]**  |
| **Entry number (MPA Ref)** | 22144 |
| **Title of Entry** | Safer Pedestrian Routes and Crossing |
| **Name of Company** | Breedon Trading Ltd |
| **Location** | Ethiebeaton Quarry |
| **Video** **[ ]  (if yes, please include URL for video)** | No |
| **Other resource** **[ ]  (if yes, please include description)** | 1 Pdf document |
| **Fatal Theme (tick boxes that are applicable) 1** **[ ]  2 X 3** **[ ]  4** **[ ]  5** **[ ]  6 X** |
| **BACKGROUND** |
| Quarry traffic management is always a large risky task. There is a one-way traffic management system on site for quarry mobile plant and trucks, with some temporary demarked pedestrian routes, however, it was Breedon`s objective to further mitigate this risk by installing new permanent Armco barriers for the pedestrian routes and a traffic light systems for crossing points.A joint decision from management and the H&S Team was made to upgrade pedestrian walkways and pedestrian-traffic interface.The new Armco barriers provide better protection for pedestrians and give them clearly marked routes to access the quarry and plant. The pedestrian crossings provide a safe route between the office/batch cabin and asphalt plant, over the quarry exit road, for operatives, maintenance personnel and tanker drivers.This step supports The Fatal 6 initiative by mitigating 3 of the 6 high consequence hazards. |
| **MANAGEMENT OF PROCESS** |
| Breedon made a group decision to start reviewing and updating site traffic management and pedestrianisation.At Ethiebeaton, the management showed their leadership by involving operatives to plan together a pedestrian access route for safer access to the quarry and plant, the area of the newly installed crossing was brought up as high potential for accidents, being the exit route from the quarry.Implementation of a new traffic light crossing system has resulted in safer access to the quarry and plant for pedestrians.The traffic light system implemented consists of:* Traffic lights on either side of the road to stop traffic exiting the quarry when a pedestrian signals to cross.
* Two pedestrian lights on either side of the road to signal when it is safe for pedestrians to cross. Projectors are also fitted to show pathway over the road at the sides along with coloured triangle light in the centre to indicate when safe to walk across.
* Audible alarm sounds to notify pedestrians that the lights will soon turn red.

The construction of the crossing was undertaken by a third-party contractor, Fhoss Electrical with assistance from the internal electricians. This ensured the work was carried out efficiently and to the highest standard.A new site induction leaflet was produced to supplement the new MP Connect induction system for all drivers & contractors entering site. The new pedestrian crossings are now shown on the leaflet.The above reflets the importance of `Zero Tolerance of Unsafe Work Conditions`, `High Quality Implementation` and `Collaboration and Sharing`. |
| **BENEFITS** |
|  Benefits to employees, contractors, and customers:* Safer pedestrian-traffic interface
* Mitigation of 3 out of 6 Fatal Hazards

3 out of 6 Hazards:* Less chance of contact with moving machinery
* Workplace transport and pedestrian interface reduced
* Lower chance of road traffic accidents

The benefits can be seen in the significant change in Health and Safety culture. This system has been shared with all sites in the district which are now working on implementing similar systems where needed.This change clearly goes hand in hand with Breedon`s `Home Safe and Well` by ensuring a lower risk of traffic-based accidents happening on site.Management involving the quarry operatives in the initial discussions through to the implementation of the routes has made them feel part of the team and empowered them to raise any future suggestions / concerns for safety improvements on site. They are now safer and feel more confident walking between areas on site knowing they have better protection. |
| **INNOVATION** |
| Ethiebeaton Quarry`s willingness to improve can be seen though it`s innovative mindset:* First Breedon site in Scotland to implement this traffic light pedestrian crossing system.
* Future site improvements will follow on from this, demonstrating that there is a key mindset of always looking to improve and develop site safety culture.
* Shows the willingness of employees to contribute ideas and suggestions to help with these projects.
* Reflects a significant enhancement to the previous traffic management on site.
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| **DEVELOPMENT & TRANSFERABILITY** |
| All other Breedon sites were briefed on this improvement and were asked to start planning similar systems if needed.This system could benefit many other industries where heavy mobile plant/pedestrian interfaces are present, such as: waste management, civil construction, and lumber industry. |
| **NB if document has embedded images try and include these****If other documents provided say additional information available.** |