

CASE STUDY

BAM Nuttall | Zonal Working July 22

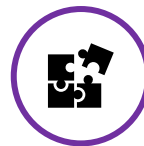
Introduction

One of the main hazards the construction industry face is being near to active plant equipment. Every year people are killed or seriously injured due to being struck by moving machinery. BAM Nuttall in partnership with Flannery plant hire have produced a short film to highlight the benefits of our Zonal Working process.



Overview

- We recognise the importance of adequately controlling plant person interface and through our Zonal Working standard, the film aims to demonstrate this approach.
- The use of digital enhanced cordless telecommunications (DECT) comms is widely used within the rail industry, but not in Highways, our aim working with National Highways is to trial this process for plant person interface.
- Zone Controllers manage the restricted and exclusion zones.



Challenges

- Standardised approach across supply chain.
- Unsafe behaviours, too reliant on technology and virtual walls on plant equipment which does not eliminate but only reduces the risk of persons coming into contact with plant. The increased technology creates a greater risk to the plant operators by adding more and more technology to the plant cab, restricting their vision and causing confusion.



"As you can see, the beauty of Zonal Working lies in its simplicity. Here at National Highways, we would like to see this way of working utilised across all our sites" - Jason Hones, Regional Delivery Director (Midlands) – National Highways



Action Taken

- Collaborated with Flannery Plant hire. This approach enabled the identification of key behavioural drivers that often contribute to People Plant interface incidents that frequently occur on site.
- Utilised the controlled facilities available at the Flannery's Skills Training Hub, the expertise and experience of Plant instructors, Construction Managers and Safety professionals of both organisations.
- The collaboration resulted in the development of a simplistic approach to segregation and control of people and plant on live construction sites. Utilising physical separation through the creation of Zonal Working, a 'Three Zone' hierarchy has been developed in conjunction with the use of DECT duplex communication system; a dedicated communication link between the Machine/Zone controller and Plant operator.
 - Exclusion Zone – No persons are permitted to enter this zone; this work area is controlled by the Machine/Zone controller utilising DECT communications.
 - Restricted Zone – Only trained and competent persons – controlled by Zone Controller.
 - Normal – Accessible to all operatives.

Results

- Production of a 'Best Practise' short film to demonstrate the simplicity of set up and deployment of Zonal Working on site and endorsed by National Highways.
- Zonal Working has been deployed on all National Highways/BAM Nuttall Projects.
- Zonal Working is embedded within BAM Nuttall Transport division and included in our CPP, activity plans and daily briefings.
- The Zonal Working process has been included in all inductions and will become business as usual across Bam Nuttall Projects and sites.
- Collaborative working with National Highways and Plant Suppliers to BAM Nuttall, in order to reduce harm in relation to PPI.
- Embed a standardised approach to be trialled across Midlands DiP RiP Projects.

"We have been impressed with the Zonal Working initiative developed, delivered and embedded by BAM Nuttall within their Highways Sector Business. This demonstrates commitment to continual improvement of Safety across their Highways sector business and seeks to drive the Safe delivery of Construction works across all BAM Nuttall sites delivering for National Highways Projects." - Jon Slemmonds, Programme Leader (RiP Midlands) National Highways

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