

# Safety Hub Update – 25<sup>th</sup> January 24



- Our December and January meeting agendas covered:
- Lots of sharing: legionella risks shared by Costain; AI traffic monitoring to inform design of TM presented by Kier and smart hearing protection successes shared by Amey
- Plan for 2024; continue to support the SCSLG on key significant risk areas
- 3 task and finish groups set up to address issues and share best practice:

One for live lane working and live carriageway crossings and assessment of safe working methods to be deployed

One for a review of RtB 12 looking at safety critical medicals and the difference between NH requirements and Network Rail, plus potentially a review on D&A tests

Final group on identification and recording of NRTS by-pass cables and other hazards in the verge

# What have we learnt?



Following the monthly outlet temperature testing, the site team identified that for consecutive months a sink tap wasn't reaching the required temperature. As a result, the team requested samples to be taken by the legionella service provider. On the 08 November, Costain were informed by the service provider that the sample had returned levels of Legionella bacteria.

No reports of any illness to date.

## Key lessons learnt

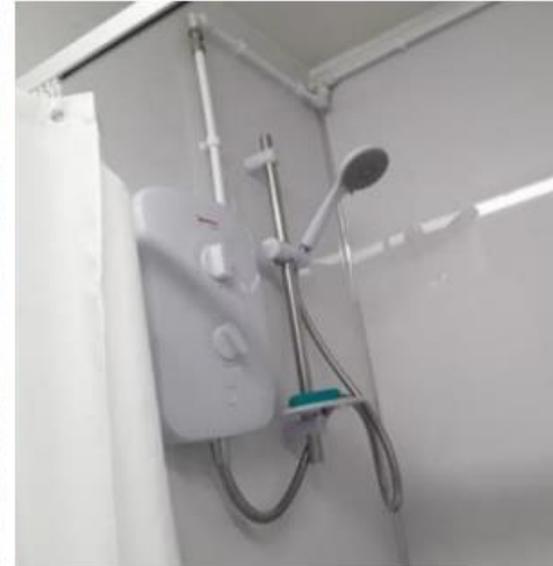
- **Appointing Responsible Persons & Duty Holders**
  - Ensuring persons have clearly defined roles & responsibilities for the key individuals and deputies
  - Ensuring suitable & sufficient training for named roles
- **Change Management**
  - Ensuring the legionella risk assessment is updated when installing or modifying temporary buildings
- **Assurance**
  - Ensuring various assurance checks are being undertaken



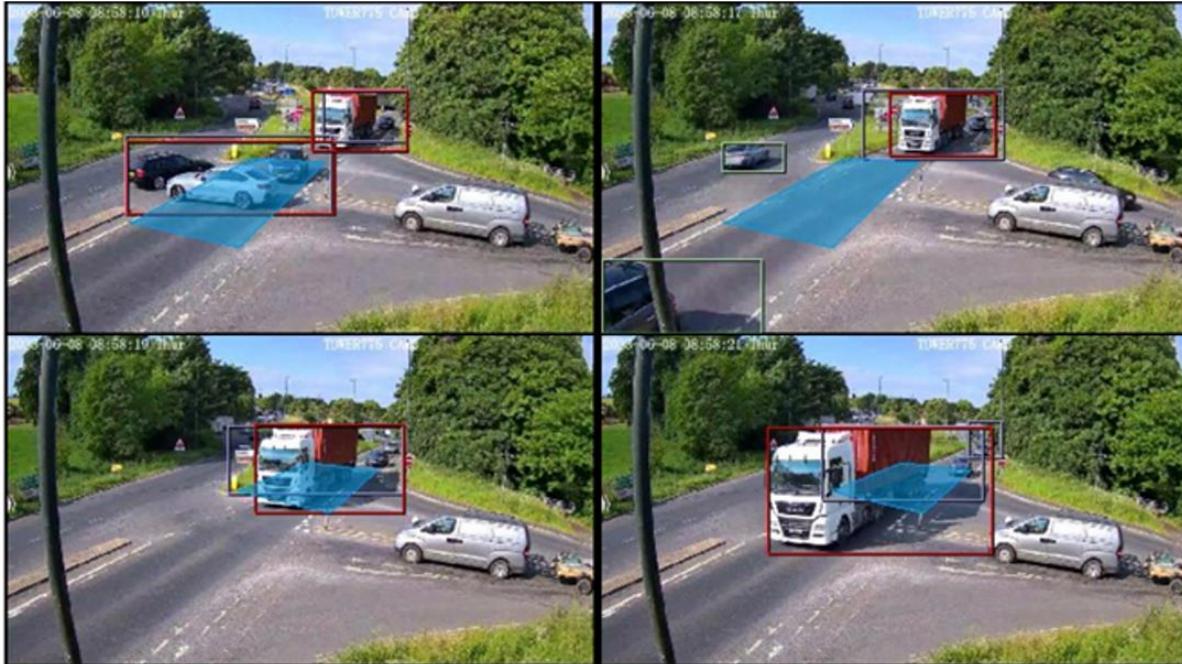
# Common examples of causes



- Dead legs – redundant pipe work
- Significant length of water supply pipe work – the standard length of flushing the taps is potentially not enough
- Instant hot water boilers in kitchens that are out of order – which act like a dead leg
- Changing the use of the cabins e.g. Canteens to offices
- Disused showers

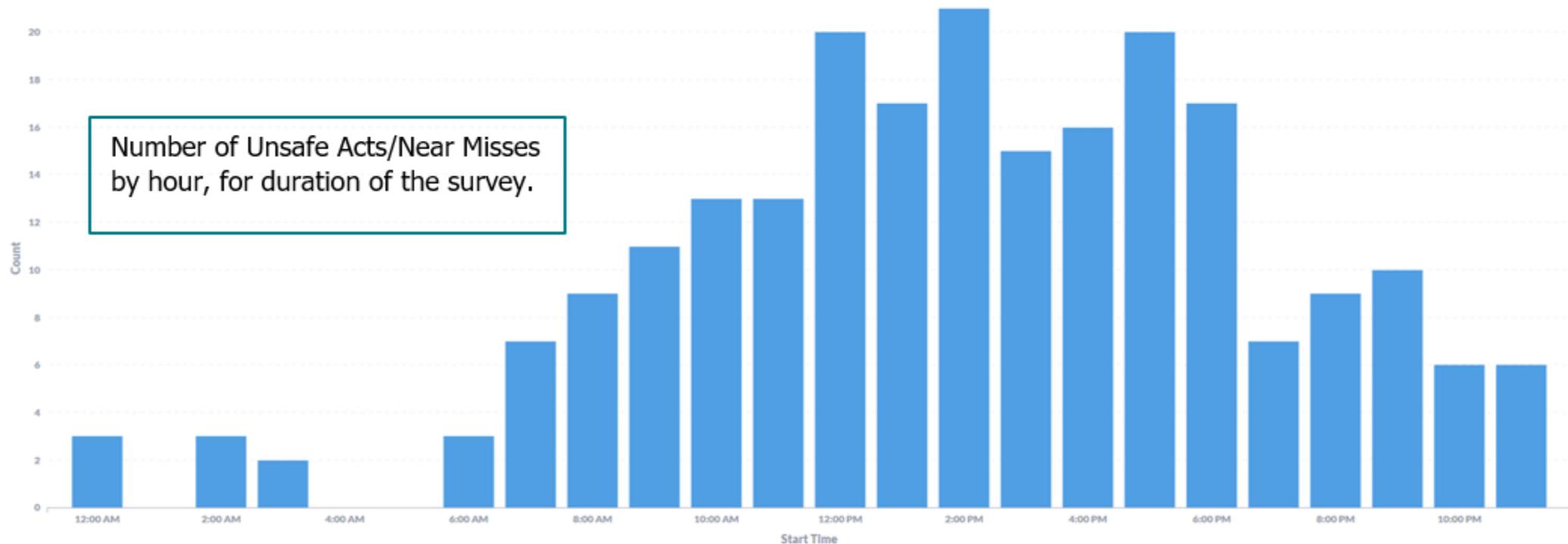


# Ullenwood Manor / A426 junction arrangements opposite A417 main Site Office Entrance



- Use of AI cameras including vehicle incident detection and traffic speed/counting system identified unsafe acts and near misses.
- This entailed one solar powered CCTV tower being installed for a period of 28 days, with the video set for detecting vehicles encroaching a specific point. A full detailed report was provided by Clearway which then went on to inform the future design of the scheme.

Over 228 Unsafe Acts/Near Misses were recorded during the deployment (between 2nd and 29th June) with the highest number occurring between 12pm and 2pm, followed by a second peak around 5pm, with surprisingly few during the morning Rush Hour.



By ensuring our teams have accurate data around current road use, we have been able to influence the junction redesign, which will significantly reduce the number of Unsafe Acts and Near misses, and therefore significantly reduce the likelihood of a serious accident.

What was originally designed to be a Traffic Light controlled junction, will now be a roundabout instead, as a result of this data.

# Raising the Bar Guidance under review

Raising the Bars 1&3 Plant Standards and People/Plant Interface are being reviewed by the Plant and Earthworks Community (PEC) Step Change Programme. 9 key initiatives have been identified that will support the drive towards step change in plant & earthworks sector during RIS2, these include:

- • Eco-operator Training
- • **3D Machine Control**
- • **Design for Machines**
- • Intelligent Compaction
- • HVO
- • Electrical plant
- • Hydrogen plant
- • Hybrid plant: fossil + hydrogen
- • Robotics / Connected autonomous plant