



BRIDGE STRIKE – MATERIAL DELIVERIES

WLD.012

Description of Event

Material delivery location in proximity to overhead structure.

Population at Risk

Construction Workers, Maintenance Workers and Rail and Road Users

Hazardous Activity and Residual Risk Description

- Driving off with Tipper Lorry in unsafe condition
- Tipper lorry operations in close proximity to overhead structures with an assessed residual risk of an almost certain likelihood of major harm.

Potential consequences of this event

- Strike to overhead bridge structure causing damage to infrastructure, passing traffic, potential line closure and serious injury or death.
- A blocked route may result in the loss or disruption of agreed access routes and closure of the site or road network.

Safety Hub [Alert Database](#)

- Sub-category 2 overhead hazards has 7 alerts relating to bridge strikes including 2 with injury.

Potential Mitigation Measures

Design

- Provide information on access and egress routes and details of obstructions.
- Site material delivery locations away from overhead obstructions.
- Design goalposts with digital technologies that alert drivers to risk of collision with overhead structures.



Construction

- Use digital technologies to inform driver that body is raised when moving.
- Use site worker to confirm the body is lowered prior to leaving site.
- Install mirrors at site exit that enable driver to self-check body is down.
- Use augmented reality to inform driver of approaching overhead structures.
- Provide warning signage identifying the vehicle height and width.

Maintenance / Operations

- Apply above design and construction mitigation measures.
- Maintain information on restrictions in health and safety file/asset management database.

Further Guidance and Reading

- [RtB 35 - Loading and Unloading of Mobile Plant](#)
- [Guidance: How to Prevent Vehicles from Hitting Bridges](#)
- [RtB 7 – Overhead Structure and Services Protection](#)



Photo of wagon colliding with bridge deck and become dislodged – view from road.



Photo of wagon having collided with bridge deck.



Please send ideas for Whole Life Design safety shares to wellbeing@nationalhighways.co.uk

LEAN

Alternative Plant

Reduced Reportable Accidents