Passive Level Crossings

Crossings where users are in control of their actions
**Level Crossings in your area**

Over **6,300** level crossings in the UK

LNE & EM Route **1,870** level crossings.

- Gateshead – Skiff Inn, Peth Lane, Boathouse, Golf Course & Clara Vale
- Newcastle – None
- North Tyneside – Dairy, Benton Sq, Earsdon, Killingworth, Dudley, Holywell
- South Tyneside - Hebburn South Dr, Blue House, Monkton
- Sunderland – Ocean Road – open crossing & Mothballed line – Snowdons Farm)
**LC – The types**

Manual Controlled Barriers

Automatic Half Barriers

User Worked – passive

Pedestrian - passive
Level Crossing Risk

42% of total railway safety risk is at Level Crossings
96% of this risk caused by user misuse and abuse
Responsibilities at Level Crossings

Network Rail

The Highway Authority

The Planning Authority

The British Transport Police

The Home Office Police Force

The User
Responsibilities / Risk – Road & Rail

Effect of nearby planning applications
**Network Rail issues**

Safety risk
Train Performance – failures and incidents
Potential access point for trespass, vandals and suicides
Operating cost
Future renewal cost

**Local Authority / Community issues**

None exhaustive
Access for all
Protection of historic rights
Enhancing local network of footpaths
Objectives of collaborative working

Working in collaboration to:

- Close, divert or upgrade level crossings
- Identify planning threats and opportunities
- Education and enforcement action for public safety
- Promote safe usage of level crossings
Shared Objectives

- Crossings that present a safety concern
Level Crossing Manager – Your local contact

What do they do?

- Manage the risk portfolio for the crossings
- Complete maintenance inspections of the crossings
- Seek to reduce risk by closing crossings
- If closure is not possibly improve crossings
- Engage with authorised users, stakeholders & public on crossing risk

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How do we quantify risk?

ALCRM (All Level Crossing Risk Model)

• Main Risk Factors:
  – Road: type, number, speed of vehicles, pedestrians, etc. Characteristics of road approaches
  – Rail: type, number, length, speed of trains.
  – History of incidents / mis-use
  – Type of protection; barrier down times, warning times, etc.

• Calculates a comparative risk score (Individual risk A-M; Collective risk 1-13)
High individual risk PROW crossings

Boathouse (Ryton):
- Risk score = C3
- Key risk drivers – Frequent Trains / High number of pedestrians / limited sighting

Peth Lane (Ryton):
- Risk score = C6
- Key risk drivers – Frequent trains / High number of pedestrians / limited sighting / user misuse

Blue House (East Boldon):
- Risk score = C4
- Key risk drivers – Frequent trains / high speed line / user misuse

Dudley:
- Risk score = B5
- Key risk drivers – High speed line / high frequency of trains / dog walkers
A collaborative approach crossing awareness with internal/external partners that brings success

Working with First Transpenine Express and the British Transport Police at Haxby Road Level Crossing
Level crossing media involvement

- SAFETY MESSAGE – Don’t misuse level crossings!

- STORY – New cameras to catch those who misuse + community awareness day

- COVERAGE – Radio, TV, Print, Social Media – thousands of people reached through three days of coverage by 10 media outlets.

- OUTCOME – People talking, awareness raised.

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We also engage with schools
Liabilities Negotiations

• Technical experts, providing cross-business advice on contractual and statutory liability to ensure Network Rail recognises obligations in any work proposal

• Research and investigate the extent of legal rights over the railway
Liabilities Negotiations

- Identify opportunities to close or downgrade level crossings.
- Advise on and facilitate the legal process for closure of level crossings
- Engage with stakeholders
- Advise on Equalities Act 2010
- Seek to improve public right of way network & mitigate inconvenience
- Identify opportunities for joint schemes
Thank you for your time

Are there any crossings that you think could benefit from an awareness day or further engagement with user groups?

Please contact your local Level Crossing Manager

You can reach us via

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