

# Phase 2b Western Leg Information Paper E8: Vehicle flow management and safety requirements during construction

This paper outlines how large goods vehicle flows associated with the Proposed Scheme will be managed during the construction phase and includes how vulnerable users will be protected from them.

It will be of particular interest to those potentially affected by the Government's proposals for high speed rail.

This paper was prepared in relation to the promotion of the High Speed Rail (Crewe - Manchester) Bill. Content will be maintained and updated as considered appropriate during the passage of the Bill.

If you have any queries about this paper or about how it might apply to you, please contact the HS2 Helpdesk in the first instance.

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## 1 Introduction

- 1.1 High Speed Two (HS2) is the Government's scheme for a new, high speed north-south railway, which is being taken forward in a number of phases. Phase One will connect London with Birmingham and the West Midlands. Phase 2a will extend the route from the West Midlands to Crewe. The Phase 2b Western Leg will connect Crewe to Manchester. As set out in the Integrated Rail Plan, published in November 2021, HS2 East is proposed to deliver a new high speed line from the West Midlands to East Midlands Parkway.
- 1.2 HS2 Ltd is the non-departmental public body responsible for developing and promoting these proposals. The company works under the terms of a Development Agreement entered into with the Secretary of State for Transport.
- 1.3 The construction and operation of Phase One of HS2 is authorised by the High Speed Rail (London West Midlands) Act 2017 and Phase 2a by the High Speed Rail (West Midlands Crewe) Act 2021.
- 1.4 In January 2022, the Government introduced a hybrid Bill to Parliament (hereafter referred to as 'the Bill'), to seek powers for the construction and operation of the Phase 2b Western Leg (the Proposed Scheme), which is called the High Speed Rail (Crewe Manchester) Bill. The Proposed Scheme comprises the Phase 2b Western Leg from Crewe to Manchester and several off-route works. It also facilitates the delivery of Northern Powerhouse Rail by providing the Crewe Northern Connection and junctions and other infrastructure to be used in future schemes.
- 1.5 The work to produce the Bill includes an Equalities Impact Assessment and an Environmental Impact Assessment (EIA), the results of which are reported in an Environmental Statement (ES) submitted alongside the Bill. The Secretary of State has also published draft Environmental Minimum Requirements (EMRs), which set out the environmental and sustainability commitments that will be observed in the construction of the Proposed

Scheme. For more information on the EMRs please see Information Paper E1: Control of environmental impacts.

- 1.6 The Secretary of State for Transport is the Promoter of the Bill through Parliament. The Promoter will also appoint a body responsible for delivering the Proposed Scheme under the powers granted by the Bill. This body is known as the 'nominated undertaker'. There may be more than one nominated undertaker. However, any and all nominated undertakers will be bound by the obligations contained in the Bill, the policies established in the EMRs and any commitments provided in the information papers.
- 1.7 These information papers have been produced to explain the commitments made in the Bill and the EMRs and how they will be applied to the design and construction of the Proposed Scheme. They also provide information about the Proposed Scheme itself, the powers contained in the Bill and how particular decisions about the Proposed Scheme have been reached.

#### 2 Overview

- 2.1 The construction of a project on the scale of HS2 will require the removal and delivery of large quantities of materials throughout the main construction phase along the line of route. The project is founded on extensive use of construction haul routes along the alignment of the railway, to manage flow of construction materials without the need to pass along the public highway network. However, there will be use of the public highway network and this information paper outlines how construction vehicles associated with the Proposed Scheme using the public highway network will be managed.
- 2.2 For works in Scotland, the term 'highway' used in this document should be understood to mean 'road', 'footpath' or other route to which the public has lawful access as the context requires. Similarly, the term 'highway authority' should be understood to mean 'roads authority'.

2.3 This information paper explains how use of permitted lorry routes approved by local planning authorities to and from work sites, and the volume of vehicles on specified routes, will be monitored. It also explains the vehicle and driver safety requirements, above the legal minimum standards, which will be adopted to protect vulnerable road users (including pedestrians, motor cyclists, pedal cyclists and equestrians).

# 3 Background

- 3.1 For this paper, construction traffic means all vehicles over 3.5 tonnes (Heavy Goods Vehicles or HGVs) which are making deliveries of construction equipment or materials, or moving quantities of excavated material on public roads. Controls on the routes to be used by construction traffic will apply to Large Goods Vehicles (over 7.5 tonnes), where there are more than 24 movements combined entering or leaving a site each day. These lorry routes are approved by the relevant planning authority, normally being the same as the authority responsible for the road network where the site is located. Overall vehicle numbers (including workforce private vehicle trips) will be considered when assessing the environmental impact of the project in accordance with the ES.
- 3.2 HS2 construction vehicles and their impact on road safety will be managed, monitored and controlled by:
  - a vehicle monitoring system, to enable contractors to provide forecast and actual movement data as well as information on safety compliance;
  - vehicle flow monitoring, where there are specific restrictions on numbers of vehicles permitted to use a route;
  - vehicle identification;
  - driver training in vulnerable road user awareness, rural road driving and fuel efficiency;
  - requirements for vehicle safety equipment and blind spot minimisation;

- the implementation of fleet operator quality schemes; and
- the implementation of route and flow monitoring, including monitoring that the driver and vehicle safety requirements are being met.
- For further details about how traffic will be managed during construction refer to Information Paper E3: Management of traffic.
- 3.4 How these HS2 construction vehicle management, monitoring and control measures will be applied will be set out in a Route-wide Traffic Management Plan which will be consulted on with the highway authorities along the line of the Proposed Scheme.

# 4 Vehicle flows and road safety management, monitoring and control

- 4.1 For the main construction phase the nominated undertaker will implement a vehicle monitoring system which will:
  - enable the nominated undertaker to manage and monitor the overall flow of construction vehicle movements and seek to avoid vehicles queuing on the highway;
  - enable the nominated undertaker to monitor the overall volume of HS2-related HGVs or LGVs passing any specific location during particular hours where required to ensure compliance with an undertaking or assurance; and
  - enable Principal Contractors to plan their scheduling of vehicle movements for each site in advance of arrival.
- 4.2 Principal Contractors will be required to use the system to advise the nominated undertaker of future planned vehicle movements to ensure that site capacities are not exceeded and that movements are only planned for permitted working hours as described in Information Paper D5: Working hours.

- 4.3 Principal Contractors will enter into the system actual vehicle arrival times at construction sites and provide management information such as registration, vehicle type, operator, load type, utilisation, origin, driver details and vehicle safety equipment compliance.
- 4.4 The system will enable the production of reports covering adherence to plans, actual movement details and safety compliance.
- 4.5 The requirements and systems outlined above will also be used to ensure that Large Goods Vehicles (over 7.5 tonnes) only use approved routes. Technology such as automatic number plate recognition and GPS may be used to respond to complaints and verify compliance.

#### 5 Vehicle identification

- All vehicles over 3.5 tonnes regularly employed on construction will be required to display an A4 size identifier, stating 'HS2', inside the cab windscreen in a position that does not obscure the driver's visibility. It should only be in use when the vehicle is on HS2 business.
- The purpose of the identifier is to allow emergency services, stakeholders and the public to identify HS2 vehicles if the vehicles are off permitted routes, parked inappropriately, badly driven or involved in a road traffic incident.

# 6 Fleet operator quality schemes

- 6.1 Principal Contractors will need to ensure that their heavy goods vehicle fleets operate in accordance with an approved and audited fleet quality scheme, such as the Fleet Operator Recognition Scheme (FORS), DVSA's Earned Recognition or ISO39001.
- 6.2 Light goods vehicles (less than 3.5 tonnes) may follow a more appropriate quality scheme, such as Van Excellence.

# 7 Driver training and vehicle safety

7.1 The Construction Logistics and Community Safety (CLOCS) standard was developed as a voluntary standard to protect vulnerable road users. The

CLOCS standard has now been absorbed into the FORS fleet quality scheme. Principal Contractors, and their supply chain, will be required to follow vehicle and driver safety standards aligned to these requirements.

#### **Driver training**

7.2 Drivers need to undertake periodic training to maintain their Certificate of Professional Competency (CPC). Drivers of vehicles over 3.5 tonnes who regularly attend any HS2 worksites must complete appropriate CPC training which includes vulnerable road user awareness, rural driving and fuel efficiency and driving within time limits which will be set by the nominated undertaker. Driver training records will be entered on a suitable database for regular review by contractors and compliance monitoring by the nominated undertaker.

#### **Vehicle safety**

- 7.3 HGVs regularly attending any HS2 worksite, as well as complying with all legal regulations and standards, will be required to have the following safety equipment fitted and in full working order at the start of each working day:
  - prominent signage warning other road users not to get too close to the vehicle. This will also apply to certain Light Goods Vehicles;
  - side under-run guards on both sides, unless the contractor has demonstrated that site conditions mean that they are not capable of being fitted; and
  - blind spot minimisation, which may be a combination of Class IV, V and VI mirrors, a camera system for blind spots, audible or visual front nearside driver alerts and audible nearside left turn and reversing external warnings. Fresnel lenses will not be considered adequate for blind spot minimisation.
- 7.4 LGVs used for the movement of excavated material must also have a four-way or 360 degree camera system fitted that can store up to two

weeks' data and which may be viewed by the principal contractor on a 'just cause' basis.

- 7.5 Vehicles failing to comply with the above requirements will not be allowed on HS2 worksites, and drivers would be subject to suspension from all HS2 worksites.
- 7.6 Other vehicle safety standards will also apply and, whilst failure to comply will result in vehicles being turned away from HS2 worksites, a driver suspension policy would not apply. The additional standards are that vehicles:
  - Must not have any tinted windows;
  - Must have clean standard registration plates;
  - Must have a working beacon fitted;
  - Must only carry passengers for the number of seats fitted;
  - Must not carry alcohol;
  - Must carry appropriate emergency aids, such as a first aid kit;
  - Must not carry children or pets; and
  - Must have winter tyres fitted where and when it is a contractor policy for works vehicles.
- 7.7 Where appropriate, vehicle safety measures can be extended, so that as technology and vehicle design improves these could be adopted sooner by the project as a business case allows.

# 8 Monitoring of compliance

- 8.1 Prior to construction, Principal Contractors will be required to produce a Environmental, Sustainability and Safety Management Plan (ESSMP) which will set out how they will adopt:
  - A quality plan for fleet operations with audit and annual re-inspection;

- The project's driver training measures and what further measures, such as driver health management, they propose to adopt;
- The project's vehicle safety measures and what further innovation they propose to adopt; and
- Measures to reduce the environmental impact of construction, such as further improvements to fuel efficiency and reducing road noise.
- 8.2 Monitoring of compliance, such as use of approved lorry routes, will be led by a dedicated monitoring and compliance team employed by the nominated undertaker.
- 8.3 The administrators of the vehicle monitoring system will review contractor performance and compliance with driver and vehicle safety and any relevant undertakings and assurances.
- 8.4 In addition, the compliance team will ensure that the nominated undertaker's policies and procedures are being adhered to.

#### 9 More information

9.1 More detail on the Bill and related documents can be found at <a href="https://www.gov.uk/hs2-phase2b-crewe-manchester">www.gov.uk/hs2-phase2b-crewe-manchester</a>.

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# **References**

Draft Code of Construction Practice:

www.gov.uk/hs2-phase2b-crewe-manchester