

HS1 NETWORK STATEMENT

Dated Edition: November 2011

**HIGH SPEED 1 (HS1)
(Formerly the Channel Tunnel Rail Link)**

HS1 LIMITED

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1. GENERAL INFORMATION

1.1 Introduction

The High Speed 1 ("HS1") rail infrastructure consisting of track, four stations and associated infrastructure links the UK to continental Europe via the Channel Tunnel. The track on HS1 runs from the Channel Tunnel to St Pancras International Station. The four stations on HS1 are St Pancras International Station, Stratford International Station and Ebbsfleet International Station and the international section of Ashford International Station which is located within the infrastructure owned and operated by Network Rail Infrastructure Ltd ("NRIL").

HS1 Limited ("HS1 Ltd") is the infrastructure manager of HS1 under the Railways Infrastructure (Access and Management) Regulations 2005 (as amended by the Railways Infrastructure (Access and Management) (Amendment) Regulations 2009) (the "Rail Regulations 2005") and has issued this Network Statement for HS1.

HS1 Ltd (the "Infrastructure Manager") is a nominated undertaker for the purposes of the Channel Tunnel Rail Link Act 1996 and the Channel Tunnel Rail Link (Supplementary Provisions) Act 2008. The Infrastructure Manager has entered into an agreement with the Secretary of State for Transport (the "Secretary of State") under which the Secretary of State grants it a concession to operate, finance and maintain HS1 for a specified period ("Concession Agreement").

A glossary of terms used in this Network Statement is provided at Appendix 3.

1.2 Objective

This Network Statement has been developed pursuant to the requirements of the Rail Regulations 2005. This Network Statement provides general information about HS1; conditions of access to HS1 by transport operators; rules, procedures and criteria for allocation of capacity and payments for the same.

1.3 Legal Framework

- 1.3.1** EU Directive 2001/14/EC sets out various requirements on the allocation of railway infrastructure capacity and the levying of charges for use of railway infrastructure. These requirements include the development and publication of network statements by infrastructure managers. The Directive was transposed into domestic law by the Rail Regulations 2005.
- 1.3.2** The other legislation that relates to HS1 includes the Channel Tunnel Rail Link Act 1996, the Channel Tunnel Rail Link (Supplementary Provisions) Act 2008, parts of the Railways Acts of 1993 and 2005, the Railways and Transport Safety Act 2003 and a range of secondary legislation.
- 1.3.3** The Secretary of State has established a charging framework under the Rail Regulations 2005. The Infrastructure Manager is obliged to set its charges for use of HS1 by reference to this charging framework.
- 1.3.4** The Office of Rail Regulation ("ORR") is obliged by the Rail Regulations 2005 to exercise its functions under or by virtue of the Concession Agreement in order to ensure that the Infrastructure Manager is provided with incentives to reduce the cost of provision of

infrastructure and the level of access charges. The ORR's functions under the Concession Agreement include a periodic review of the charges levied by the Infrastructure Manager in respect of operation, maintenance and renewal of HS1 (other than in respect of Stations). The Infrastructure Manager has given certain commitments to the European Commission relating to the provision of access to facilities and services to Railway Undertakings authorised to provide a cross-channel passenger transport service at London St. Pancras International Station on a fair and non-discriminatory terms. Please contact the Infrastructure Manager for further information at the address set out in Section 1.8.1.

1.4 Legal Status

1.4.1 General Remarks

This Network Statement is intended to be an informative document only and as such it has no contractual force. It is not intended to be an invitation to treat or to be an offer to enter into a contract.

1.4.2 Liability

Reasonable efforts have been made to ensure that the information provided in this Network Statement is accurate. The Infrastructure Manager does not accept any liability for errors, omissions or inaccuracies. Errors which are notified to the Infrastructure Manager will be reviewed and corrected where appropriate in the next issue of the Network Statement.

1.4.3 Appeals Procedure

The ORR is the regulatory body to which an appeal may be made in accordance with the Rail Regulations 2005 if any applicant for capacity on HS1 believes it has been treated unfairly, discriminated against or is in any other way aggrieved concerning this Network Statement or any of the other matters specified in Regulation 29(2) of the Rail Regulations 2005. Details of the procedure can be obtained from the ORR website www.rail-reg.gov.uk. In considering appeals concerning HS1, the ORR is obliged by Regulation 29(8) of the Rail Regulations 2005 to consult with and take account of any representations made by the Secretary of State.

Any dispute on matters covered by the HS1 Access Disputes Resolution Rules should be dealt with in accordance with the procedure prescribed in such rules, which are annexed to the HS1 Network Code. This is a new regime which was introduced on 2 January 2011 and addresses disputes arising out of or in connection with Framework Track Access Agreements, Track Access Agreements and Station Access Agreements. The Access Disputes Committee for the NR Network provides the dispute services under the HS1 Access Disputes Resolution Rules. The charges for the provision of such services are passed on to TOCs in the Framework Track Access Agreements, Track Access Agreements and Station Access Agreements.

Any disputes in relation to other matters covered by the HS1 Disputes Resolution Agreement should be dealt with in accordance with the procedure prescribed in that agreement. The HS1 Disputes Resolution Agreement provides for the referral of any dispute to a technical, operational or financial panel, as appropriate, then an attempt at amicable settlement and finally to arbitration under the rules of the London Court of International Arbitration.

It is the aspiration of the Infrastructure Manager that the signatories to the HS1 Disputes Resolution Agreement exhaust the applicable procedures prior to making any appeal to the ORR.

1.5 Structure of Network Statement

This Network Statement has been structured in the format agreed by members of the RailNetEurope network statement working group: the latest version of this format is RNE – WG Network Statement 20090401.

1.6 Validity and Updating Process

1.6.1 Validity Period

This Network Statement is valid from November 2011 until further notice.

1.6.2 Updating Process

This Network Statement will be updated and re-published as and when changes are required.

1.7 Publishing

The Network Statement can be downloaded free, from the website of the Infrastructure Manager [Www.highspeed1.com](http://www.highspeed1.com).

1.8 Contacts

1.8.1 On all issues related to HS1:

Regulatory Contracts Manager
HS1 Limited
73 Collier Street
London N1 9BE
Tel: +44 (0)20 7014 2700
Website: www.highspeed1.com

1.8.2 On issues relating to Temple Mills Depot:

Managing Director
Eurostar International Limited
Times House, Bravingtons Walk,
Regent Quarter, London N1 9AW
Tel: +44 (0)20 7843 5500
Website: www.eurostar.com

1.8.3 On issues relating to Ashford Depot:

Head of Maintenance Delivery
Hitachi Europe Limited
4th Floor, 16 Upper Woburn Place,
London WC1H 0AF
Tel: +44 (0)20 7970 2711
Website: www.hitachi-rail.com

1.8.4 On issues relating to Dollands Moor:

Access Manager
DB Schenker Rail (UK) Limited
Wembley Office
Pendolino Way
Stonebridge Park
London NW10 0RP
Tel: +44 (0)870 140 7010
Website: www.rail.dbschenker.co.uk

1.8.5 On issues relating to track access on the NR Network and the domestic section of Ashford International Station:

Kent Route Director
Network Rail Infrastructure Limited
Suite 1, Waterloo General Office
Waterloo Station,
London SE1 8SW
Tel: +44 (0)20 7902 3775
Website: www.networkrail.co.uk

1.8.6 On issues relating to access to track through the Channel Tunnel:

Director of Railway Development
Eurotunnel
UK Passenger Terminal Building
P.O. Box 2000, Folkestone
Kent, CT18 8XY
Tel: +44 (0) 1303 288615 / +33 (0)321 00 8615
Fax: +44(0)1303 288609 / +33(0)321 00 8609
Email: jean-pierre.ramirez@eurotunnel.com
Website: www.eurotunnel.com

1.9 RailNetEurope – Cooperation between European Infrastructure Managers

In 2004, a number of European railway infrastructure managers and Allocation Bodies established a common organisation to address operational issues in the field of international rail: RailNetEurope (RNE). With a co-ordinating Joint Office based in Vienna, RNE represents its members as an association for facilitating international traffic on European rail infrastructure.

Together, the members of RNE are harmonising conditions and introducing coordinated approaches to promote the European rail business from the rail infrastructure point of view and to the benefit of the entire rail industry.

RNE has 35 Members. In total, the members serve a network of around 244,000 kilometres of railway infrastructure. The RNE members are working with over 140 Railway Undertakings in the international rail industry in Europe. The main objective of RNE is to develop and improve the international railway business. To achieve this, RNE focuses on the entire rail infrastructure production process; this includes harmonising the members' medium and long-term planning, timetabling, marketing and sales, and operations, as well as after-sales services, such as monitoring and reporting.

HS1 Ltd is a member of RNE.

1.10 One Stop Shop

1.10.1 Most European infrastructure managers which are allocation bodies who joined RNE have set up OSS which works as a network of customer contact points under the RNE umbrella. When applying for an international path, customers only need to contact one of these OSS, which initiates the whole international path co-ordination process.

The contacted OSS, in close cooperation with the concerned Infrastructure Managers:

- offers customer support and information on the product and service range of the Infrastructure Managers participating in RNE;
- supplies the information required to gain access to the infrastructure of any infrastructure manager participating in RNE;
- co-ordinates requests for any international train path within RNE, including requests for the next timetable period, so that they can be duly taken into account in the annual timetabling process; and
- provides train path offers for the whole international journey; the path coordination is mainly done via the RNE tool Pathfinder.

Each OSS is part of an international network designed to make rail network access for customers as simple as possible. The OSS also provides information on infrastructure charges and train movements, including quality monitoring. These functions are supported by RNE's information tools EICIS and EUROPTIRAILS. The OSS philosophy stands for competent and efficient assistance across all borders based on transparent, confidential and non-discriminatory procedures.

A list of OSS contact persons is available at www.railneteuropa.com

1.10.2 RNE Tools

Further details of the RNE tools may be found on the RNE website <http://www.railneteuropa.com>

1.11 Glossary

Please refer to Appendix 3 for a Glossary of Terms.

2. ACCESS CONDITIONS

2.1 Introduction

This section deals with access conditions as applicable to HS1.

2.2 General Access Requirements

In order to be able to secure access to and operate on HS1, an Applicant will have to fulfil the requirements set out in this section 2.

2.2.1 Requirements to Apply for a Train Path

To apply for a train path on HS1, an Applicant must have entered into a Framework Track Access Agreement or a Track Access Agreement or confirm in writing that it will be willing to enter into a Framework Track Access Agreement or a Track Access Agreement. Other Applicants (such as shippers, freight forwarding agents and combined transport operators) may also apply for a train path on behalf of a TOC and in respect of which special conditions shall apply. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

Framework Track Access Agreements and Track Access Agreements contain a number of conditions which must be satisfied by an Applicant before it can use a train path. These conditions require the Applicant to:

- (a) hold a valid licence to be the operator of trains granted under section 8 of the Railways Act 1993 or a licence exemption granted by the ORR or fulfil the relevant provisions of the Channel Tunnel Rail Link Act 1996 which grant exemption from the need for a licence under the Railways Act 1993, or hold a European Licence and a Statement of National Regulatory Provisions ("SNRP") granted or recognised under the Railway (Licensing of Railway Undertakings) Regulations 2005;
- (b) hold a valid and current safety certificate (see section 2.2.4);
- (c) become a signatory to the HS1 Claims Allocation and Handling Agreement ("HS1 CAHA"), to the HS1 Disputes Resolution Agreement (including any revision/amendments to the HS1 Disputes Resolution Agreement) and to the HS1 Access Disputes Resolution Rules (which are incorporated into a Framework Track Access Agreement or Track Access Agreement by way of the HS1 Network Code);
- (d) if the Applicant is intending to operate passenger services, become a signatory to the Station Access Agreements for the stations it intends to use and such other agreements as may be specified in the relevant Framework Track Access Agreement or Track Access Agreement; and
- (e) become a signatory to a direct agreement with the Secretary of State and the Infrastructure Manager in relation to the Framework Track Access Agreement or Track Access Agreement (as applicable) and the Station Access Agreements (if any) ("Direct Agreement").

Under the Rail Regulations 2005 the Infrastructure Manager and the Applicant will need to obtain the prior approval of the ORR before entering into, or amending a Framework Track Access Agreement. However the Infrastructure Manager and an Applicant will not need to obtain the approval of the ORR prior to entering into or amending a Track Access Agreement.

In addition, the Infrastructure Manager reserves the right to require the Applicant to provide credit protection for the benefit of the Infrastructure Manager. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

2.2.2 Who is allowed to Perform Train Operations

HS1 is open access rail infrastructure and is open to all TOCs as long as they fulfil the requirements to obtain a train path and are capable of operating rail services on HS1. HS1 has been declared as Specialised Infrastructure pursuant to Regulation 22 of the Rail Regulations 2005 (see section 3.4.1). Applicants who require access to and egress from HS1 by means of other networks are advised also to check the requirements of the relevant infrastructure managers.

2.2.3 Licences

The ORR is the body responsible for issuing licences under the Railways Act 1993, European Licences under the Railways (Licensing of Railway Undertakings) Regulations 2005 (which may also be issued by corresponding bodies in other member states of the European Union) and SNRPs in Great Britain, to domestic and international users. For further information, please refer to the ORR website www.rail-reg.gov.uk. The Channel Tunnel Rail Link Act 1996 provides for an exemption from the requirement to hold a train operating licence under the Railways Act 1993 in the following circumstances:

- (a) the TOC is providing train services involving travel through the Channel Tunnel; or
- (b) the TOC is a rail link undertaker (as defined in the Channel Tunnel Rail Link Act 1996) who provides train services for the carriage of goods which does not involve carriage outside HS1.

2.2.4 Safety Certificate

As required by the Railways and Other Guided Transport Systems (Safety) Regulations 2006 ("ROGS Regulations"), a TOC shall establish and maintain an appropriate safety management system and hold a valid and current safety certificate issued by the ORR, with Part B, valid for HS1, and the types of rolling stock that are to be operated on HS1. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

2.2.5 Insurance

All licensed TOCs are required to maintain the insurance cover required by the conditions of their licence. TOCs are required to maintain an insurance cover of not less than £155 million per incident in respect of all liabilities to third parties. Unlicensed TOCs will be required to maintain equivalent insurance.

The Infrastructure Manager maintains insurance with respect to HS1 as follows:

Insurance	Minimum Sum Insured
Material Damage and Business Interruption	£350 million in respect of any one occurrence
Public and Products Liability	£155 million in respect of any one claim unlimited during any one period of insurance
Employer's Liability	£10 million in respect of any one claim during any one period of insurance

Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

2.3 How to Apply for a Train Path

Please refer to section 4 (capacity allocation).

2.4 General Business / Commercial Conditions

2.4.1 Framework Agreement

2.4.1.1 A framework agreement specifies the characteristics of the infrastructure capacity allocated to an Applicant over a period of time exceeding the duration of a single timetable period. It does not specify train paths in detail but provides an assurance that, in principle, suitable capacity should be available to meet the commercial needs of the Applicant as envisaged at the time of entering into the agreement. For HS1, the function of framework agreements is fulfilled by the Framework Track Access Agreements made between the Applicant and the Infrastructure Manager.

2.4.1.2 Where an Applicant wishes to enter into a Framework Track Access Agreement it should contact the Infrastructure Manager at the earliest opportunity to discuss its requirements. There are no application forms which need to be submitted prior to contacting the Infrastructure Manager with a request for a Framework Track Access Agreement.

2.4.1.3 In deciding whether to enter into Framework Track Access Agreements, the Infrastructure Manager will take into account whether the request made by the Applicant complies with the Rail Regulations 2005 including:

- (a) the extent to which the proposed arrangement will preclude the use of HS1 by other Applicants; and
- (b) whether the proposed duration of the arrangement satisfies the requirements specified in regulation 18(7) to (9A) of the Rail Regulations 2005.

2.4.1.4 It is the Infrastructure Manager's current intention not to enter into a Framework Track Access Agreement unless the Infrastructure Manager considers that there is sufficient capacity on HS1 to satisfy the request for capacity made by the Applicant. In circumstances where the Infrastructure Manager does not consider that there is sufficient capacity on HS1 it will discuss the request with the Applicant and seek to agree alternative arrangements.

2.4.1.5 While applications for Framework Track Access Agreements will be considered by the Infrastructure Manager in the order that they are received, if the Infrastructure Manager is considering more than one application at the same time and is unable to accommodate all of the requests for capacity, the Infrastructure Manager will apply the priority criteria specified in the declaration of specialised infrastructure (see section 3.4.1).

2.4.1.6 Regulation 18(2) of the Rail Regulations 2005 requires the Infrastructure Manager and the Applicant to obtain the prior approval of the ORR before entering into or amending any Framework Track Access Agreement.

2.4.2 Access Agreements

2.4.2.1 Except for the purposes of emergency access, each Applicant must enter into a Framework Track Access Agreement or a Track Access Agreement (as applicable), Station Access Agreements (as applicable), HS1 CAHA and the HS1 Disputes Resolution Agreement with the Infrastructure Manager to cover the full scope of the intended operations. Each Applicant must also enter into a Direct Agreement with the Secretary of State and the Infrastructure Manager. Under the Direct Agreement:

- (a) a TOC undertakes not to terminate its Framework Track Access Agreement or Track Access Agreement (as applicable), Station Access Agreement(s) (as applicable) on account of an Infrastructure Manager event of default, without first giving the Secretary of State not less than 15 business days prior written notice; and
- (b) if the Concession Agreement is terminated by the Secretary of State:
 - (i) the Secretary of State may step-in to a TOC's Framework Track Access Agreement or Track Access Agreement (as applicable) and Station Access Agreement(s) (if any) and perform or procure the performance of the Infrastructure Manager's obligations (including payment obligations) under the relevant agreements; and
 - (ii) the Secretary of State or another person may assume by way of sale, transfer or other disposal the rights and obligations of the Infrastructure Manager under the relevant agreements.

2.4.2.2 The ORR has the power to supervise negotiations on charging arrangements and to intervene if it considers it is necessary to do so.

2.4.2.3 An Applicant applying for capacity with a view to operating an international passenger service must give notice of the fact to the Infrastructure Manager and the ORR and provide such information as the ORR may reasonably require or prescribe (see section 4.4.1.1 for further details).

2.4.2.3 Applicants would need to enter into separate agreements with any depot facility owners whose services they may wish to use. Please see section 1.8 for the relevant contact details.

2.5 Operational Rules

2.5.1 HS1 Codes

The HS1 Network Code, HS1 Emergency Access Code, HS1 Performance Data Accuracy Code and the HS1 Systems Code, (together the "HS1 Codes") describe the operational arrangements applicable to encourage the safe and efficient operation of HS1. Incorporated as part of the Framework Track Access Agreements or Track Access Agreements (as applicable), the HS1 Codes aim to govern the operational behaviour of the Infrastructure Manager and Applicants in relation to each other. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

2.5.1.1 HS1 Network Code

The HS1 Network Code sets out procedures relating to the operation of HS1. The code regulates change including changes to railway vehicles and to HS1 itself. The HS1 Network Code also deals with the process for establishing a working timetable, addressing operational disruption and performance improvement planning and monitoring. The HS1 Access Disputes Resolution Rules are appended to the HS1 Network Code.

Particular attention is drawn to the requirements under Part D of the HS1 Network Code setting out the processes outlined for establishing the Rules of the Route and the Rules of the Plan. Part D of the HS1 Network Code is currently in the process of being reviewed to bring in line with the current Part D of the NRIL Network Code. The Infrastructure Manager intends to consult on the proposed changes to Part D by the end of 2011.

2.5.1.2 HS1 Emergency Access Code

For details on the HS1 Emergency Access Code, see section 2.5.4 below.

2.5.1.3 HS1 Performance Data Accuracy Code

The HS1 Performance Data Accuracy Code specifies the standards of accuracy in the recording of data required to be satisfied by the performance monitoring system established in the HS1 Network Code. It also provides a mechanism for agreeing and notifying changes to such standards.

2.5.1.4 HS1 Railway Systems Code

The HS1 Railway Systems Code describes the systems utilised on HS1 and the process required to be undertaken for changes proposed to those systems.

2.5.1.5 Rules of the Route

The Rules of the Route set out the possessions required by the Infrastructure Manager in order to carry out inspections, maintenance, repair, renewal and enhancement works on HS1. The Rules of the Route specify:

- (a) the location, number, timing and duration of any possessions of any track or section of track, which enable inspection, maintenance, renewal and repair thereof or of any other railway asset or any other works in relation thereto, and any restrictions regarding those possessions;
- (b) any temporary speed and other restrictions on the operation of trains on any section of track (including the intended duration of such restrictions), which may be necessary to carry out any inspection, maintenance, renewal or repair referred to in section 2.5.1.5(a) above; and
- (c) any alternative train routes or stopping patterns which may apply during any possessions referred to in section 2.5.1.5(a) above.

The Rules of the Route are settled each year through a consultation process set out in Condition D3 of Part D of the HS1 Network Code. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1. It is proposed to amend the name "Rules of the Route" to "Engineering Access Statement" as part of the proposed changes to Part D of the HS1 Network Code as described in Section 2.5.1.1.

2.5.1.6 Rules of the Plan

Amongst other things, the Rules of the Plan contain the rules for regulating the standard timings which enable the scheduling of trains into the Working Timetable.

The Rules of the Plan also contain a procedure to enable amendments to be made to the Rules of the Route and the Rules of the Plan other than through the annual consultation process set out in Condition D3 of Part D of the HS1 Network Code. No changes may be made to the Rules of the Route or the Rules of the Plan unless the Infrastructure Manager has consulted, to the extent reasonably practicable, with each TOC affected by the proposed change and due regard has been had to the decision criteria specified in Condition D8 of Part D of the HS1 Network Code.

The Rules of the Plan are settled each year through a consultation process set out in Condition D3 of Part D of the HS1 Network Code. It is proposed to amend the name "Rules of the Plan" to "Timetable Planning Rules" as part of the proposed changes to Part D of the HS1 Network Code as described in Section 2.5.1.1.

Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

2.5.2 HS1 Standards and HS1 Rule Book

HS1 Standards are technical standards and operating procedures contributing to safe railway system operation and inter-working issued by the Infrastructure Manager, which are identified as "CTRL Standards" and compliance with which is mandatory. The HS1 Standards include the HS1 Rule Book, a modular document that includes procedures and specific working instructions in relation to general safety responsibilities: electrified lines; mishaps, incidents and extreme weather; on-track plant and machines; working by pilot-men; signals; speeds; shunting and station duties; track and signalling work; train signalling regulations and signalling general instructions; and train working. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

2.5.3 HS1 Sectional Appendix

The physical attributes of HS1 are described in the HS1 Sectional Appendix. It also contains any special instructions required to amplify the HS1 Rule Book in respect of operations at specific locations. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

2.5.4 HS1 Emergency Access Code

The HS1 Emergency Access Code grants a TOC permitted to use HS1 a permission to use railway facilities of other TOCs and the Infrastructure Manager where the TOC or the Infrastructure Manager is the facility owner of each facility in case of an emergency on HS1 for the duration of such emergency and for as long after the cessation of such emergency as shall be reasonably necessary.

The stabling charges for the purpose of the emergency access shall be as follows:

- (a) in respect of HS1:
 - (i) for the first 24 hours – £40 (subject to indexation in accordance with the HS1 Emergency Access Code); and

- (ii) for each subsequent period of 24 hours – £185 (subject to indexation in accordance with the HS1 Emergency Access Code); and
- (b) in respect of Temple Mills Depot: Rates as advised by the contact person for Temple Mills Depot specified in section 1.8.2; and
- (c) in respect of other railway facilities Rates as advised by the facility owner of the railway facility.

The above amounts are amounts payable in respect of each railway vehicle stabled and are exclusive of value added tax. For periods shorter than 24 hours, the amounts in question shall be prorated.

2.5.5 Station Access Conditions

When an Applicant enters into a HS1 Station Access Agreement in respect of a Station, the Station Access Agreement shall incorporate the Station Access Conditions which set out the operational arrangements applicable to the operation of the Stations.

2.6 Exceptional Transports

Special conditions of travel may need to be applied to certain vehicles or loads because of their size, weight or other unusual features. These conditions may include speed restrictions, train marshalling restrictions and/or special instructions for passing trains on adjoining lines, and are determined on an individual basis by comparing the consignment with the characteristics of the route over which it is to travel. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

2.7 Dangerous Goods

Goods which are capable of posing a risk to health, safety, property and the environment during carriage by rail are classified as "Dangerous Goods" according to the Regulations concerning the International Carriage of Dangerous Goods by Rail and the Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007. Both sets of regulations apply to TOCs operating on HS1. Dangerous Goods will require special authorisation and working instructions will be issued specific to the movement of such goods as per the HS1 Rule Book. Any TOC wishing to transport Dangerous Goods on HS1 should contact the Infrastructure Manager at the address set out in section 1.8.1.

2.8 Rolling Stock Acceptance Process

All vehicles placed in service on HS1 by a TOC must be covered by Part B of the Safety Certificate that is referred to in Schedule 2, Part I of the ROGS Regulations. Regulation 5(1)(d)(iii) of the ROGS Regulations requires that the safety management system of the TOC describes the arrangements for "placing in service of new or altered vehicles, the design or construction of which incorporates significant changes compared to any vehicle already in use on the transport system and which changes would be capable of significantly increasing an existing risk or creating a significant safety risk". Any TOC requiring to introduce a new vehicle, or make changes to an existing vehicle which come under the scope of Regulation 5(1)(d)(iii), will have to consult and agree with the Infrastructure Manager (in accordance with the duty of co-operation detailed in Regulation 22) how the risks will be controlled. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

2.9 Staff Acceptance Process

2.9.1 TOCs are responsible for ensuring that all staff involved with or affecting the movement of trains:

- (a) possess the necessary skills and competences (including English language skills as described in section 2.9.2 below); and
- (b) comply with the relevant policies and codes of practice applicable to HS1.

2.9.2 Until HS1 comes within the scope of EU Directive 2007/59/EC "on the certification of train drivers operating locomotives and trains on the railway system in the Community", drivers and other on-board staff with safety of the line responsibility are expected to speak English to a level which enables them to communicate safety of the line issues clearly to signalling staff as well as being able to come to a clear understanding with signallers of instructions issued by them, normally through "livret formulaire" procedures, i.e. dictated instructions on forms provided at the ACC and drivers' cabs.

When HS1 comes within the scope of the directive (through transposition into English law), TOCs will be required to comply with the language provisions of the transposed directive.

3. INFRASTRUCTURE

3.1 Introduction

HS1 is a high-speed rail network that links the Channel Tunnel to St Pancras International Station and it includes four stations and allied infrastructure. Currently the Infrastructure Manager has appointed NR (CTRL) to operate and maintain HS1 (including the stations other than the international section of Ashford International Station) (please see section 3.3.1 below) on its behalf. The Infrastructure Manager has appointed EIL to operate and maintain the international section of Ashford International Station on its behalf. The international section of Ashford International Station is the only part of Ashford International Station forming part of HS1 (domestic services operate from an adjacent station of the same name which forms part of the NR Network). HS1 is an electrified railway on which train operations with diesel locomotives are not permitted, except under special instructions and arrangements. (Please also refer to section 3.3.3.4).

3.2 Extent of Network

3.2.1 Geographical Limits

HS1 runs from the Eurotunnel interface at the UK end of the Channel Tunnel at Cheriton to St Pancras International Station. Please refer to Appendix 4 for a route map of HS1.

St Pancras International Station is part of HS1 except that the tracks, signals, railway telecommunications and overhead line equipment in platforms 1 to 4 (inclusive) are part of the NR Network. Ebbsfleet International Station, Stratford International Station and the international section of Ashford International Station are also part of HS1, although the tracks passing through the international section of Ashford International Station and the signals, railway telecommunications and overhead line equipment are part of the NR Network. The infrastructure maintenance depot at Singlewell and the infrastructure maintenance siding at St Pancras are not available for normal railway operations and are restricted to network services only.

3.2.2 Connected Railway Networks

HS1 connects to other railway networks or facilities at the following locations:

<u>Location</u>	<u>Infrastructure Manager</u>
St Pancras (North London Line)	Network Rail Infrastructure Limited
St Pancras (Midland Main Line)	Network Rail Infrastructure Limited
Ripple Lane	Network Rail Infrastructure Limited
Springhead Junction	Network Rail Infrastructure Limited
Fawkham Junction (Waterloo Connection)	Network Rail Infrastructure Limited
Ashford Connecting Lines	Network Rail Infrastructure Limited
Dollands Moor Freight Connection	DB Schenker Rail (UK) Limited
Cheriton	Eurotunnel
Temple Mills	Eurostar International Limited

3.2.3 Further Information

Further details about HS1 can be found in the HS1 Sectional Appendix. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

3.3 Network Description

3.3.1 Geographical Identification

3.3.1.1 Track Typologies

HS1 is a double-track railway, including connections with the NR Network (see section 3.2.2), except for the Temple Mills and Dollands Moor connecting lines which are single track, and for the station areas at St Pancras, Stratford and Ebbsfleet which have multiple tracks. All lines are signalled for bi-directional operation, except for the Waterloo connection which is unidirectional operation. Additionally, loops are provided for train regulation purposes on both up and down lines at Singlewell and Lenham and within the multiple-track layouts at Stratford and Ebbsfleet stations.

3.3.1.2 Track Gauge

The nominal track gauge is 1,435mm.

Trains calling at Ashford International Station will have to comply with NRIL requirements, although the international platforms (3&4) have been altered to accommodate UIC GB vehicles only. The network statement published by NRIL with respect to the NR Network can be found on the NRIL website. Domestic platforms at St. Pancras International Station, Stratford International Station and Ebbsfleet International Station are at the UK standard platform height of 915mm, whereas international platforms are at the TSI (high speed) infrastructure compliant platform height of 760mm. The route between Fawkham Junction and Southfleet Junction (Waterloo connection) are at UK standard structure gauge (W6/W6A) for lines up to 165km/h with 380mm passing clearance. Please also refer to section 3.3.2.1 for further details.

3.3.1.3 Stations and Nodes

St Pancras International Station (except as described in section 3.2.1.2 above), Stratford International Station, Ebbsfleet International Station and the international section of

Ashford International Station are owned by the Infrastructure Manager and (except as described in section 3.2.1 above) form part of HS1.

St Pancras International Station

St Pancras International Station is located in the northern fringe of central London and has thirteen platforms. Six platforms (nos. 5 to 10 inclusive) are for use by international services. Four platforms (nos. 1 to 4 inclusive) are for use by domestic services on the NR Network to major towns and cities towards Sheffield. Three platforms (nos. 11 to 13 inclusive) are for use by high-speed domestic services to and from Stratford, Ebbsfleet, Ashford and North and East Kent.

The lengths of the platforms at St Pancras International Station are shown in the table below:

Platform	Length from the buffer stops to the top of the ramp (metres)	Useable length after allowing for a stopping distance from the buffer stops (metres)
International Platforms	434.93	424.93
Domestic Platforms	294	284

There is an area within the station for international arrivals and departures, two sets of public toilets, large public concourse areas on the ground floor and at platform level, approximately 60 retail units, arrival and departure passenger information screens, direct access to the NRIL low-level station for Thameslink services to Brighton and Bedford, a public car parking facility and direct access to London Underground. There are concourses and platforms for Midland Main Line services, which operate on the NR Network, but the station facilities for these are part of HS1.

Due to weight limitations built into the design of the station, freight traffic will not be permitted into St Pancras International Station, unless permitted under special instructions and arrangements. Please also refer to section 3.3.3.4 for further details.

Stratford International Station

Stratford International Station is located in East London and has four platforms: two for international services and two for high-speed domestic services. Platforms are located below ground level and reached by escalators and lifts.

The lengths of the platforms at Stratford International Station are shown in the table below:

Platform	Nominal Length (metres)
International Platforms	410
Domestic Platforms	290

There are public toilets, large public concourse areas, international arrivals and departures areas, arrival and departure passenger information screens and a number of retail units.

Ebbsfleet International Station

Ebbsfleet International Station is located near Dartford in North Kent, and has six platforms: two for international trains, two for high speed domestic trains adjacent to the international platforms and two for the North Kent domestic services, sited on the North Kent connecting line.

The lengths of the platforms at Ebbsfleet International Station are shown in the table below:

Platform	Nominal Length (metres)
International Platforms	410
Domestic Platforms	290

There are public toilets, a large public concourse area at ground floor level, a public car parking facility for up to 5,000 vehicles, international arrivals and departures areas, arrival and departure passenger information screens and a number of retail units.

Ashford International Station

The international section of Ashford International Station is located in Ashford in Kent, and has two platforms for international services only (nominal platform lengths being 412m), public toilets, international arrival and departure areas, a large public concourse areas, a number of retail units, arrival and departure passenger information screens and a number of public car parking facilities.

NRIL is the station facility owner and London & South Eastern Railway Limited ("LSER") is the station facility operator of the domestic section of Ashford International Station. Please contact NRIL for further information at the address set out in section 1.8.5.

3.3.2 Capabilities

3.3.2.1 Loading Gauge

The structure gauge is as follows:

- UIC "GC" on HS1; and
- UIC "GB+" on Ashford connecting lines on the NR Network.

The track interval is not less than 4.5m between the centre lines of adjacent tracks, where the speed capability is greater than 230km/h.

Please also refer to Section 3.3.1.2 for further details.

3.3.2.2 Maximum Operating Speed and Maximum Static Loads

	Maximum Operating Speed	Maximum Static Load
Section 1 *	300km/h	17t/axle
Section 2 **	230km/h	17t/axle
Loco hauled freight train***	140km/h	22.5t/axle

* Section 1 is the part of HS1 between Fawkham Junction/Southfleet Junction and Cheriton (Channel Tunnel boundary).

** Section 2 is the part of HS1 between St Pancras International Station and Southfleet Junction.

*** Includes loco assisting a passenger train.

Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

3.3.2.3 Line Gradients

The maximum gradient is 2.50% (1 in 40). Due to this maximum gradient, trains composed of vehicles fitted with standard UIC 85 tonne couplings will be limited to a maximum trailing load of 1,100 tonnes. The maximum axle load is 22.5 tonnes. Details of gradients along the route may be requested from the Infrastructure Manager. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

3.3.2.4 Line Speeds

The Infrastructure Manager is obliged to operate and maintain HS1 in such a way that the TOCs are able to achieve the following line speeds on HS1:

	International Passenger Trains	Domestic Passenger Trains	Freight Trains
Section 1	300 km/h	225 km/h	140 km/h
Section 2	230 km/h	225 km/h	140 km/h

3.3.2.5 Maximum Train Lengths

Maximum train lengths (excluding exceptional transports):

- International Passenger 400m
- Domestic Passenger 276m
- Freight 750m (including locomotives)

* local length restrictions below this figure may apply at St Pancras International Station. St Pancras International Station cannot facilitate freight trains except under very restricted conditions.

Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

3.3.2.6 Power Supply

Power is supplied from the overhead catenary system which is compliant with the Energy (High Speed) TSI at 25kV/50Hz AC. The contact wire height above rail level is generally set at 5.08m. However, the wire height through Ashford International Station platforms is set at a minimum of 4.68m.

The principal characteristics of the power supply system are as follows:

Description	Performance
Nominal voltage	25kV
Maximum voltage (continuous)	27.5kV
Minimum voltage (continuous)	19kV
Nominal frequency	50Hz
Maximum fault current	12kA (6kA in St Pancras area)

Pantographs are to comply with EN 50206. The pantograph configuration must be in accordance with Annex H of the Energy TSI. HS1 cannot accept Rolling Stock fitted with brake regeneration capabilities, unless that brake regeneration functionality can be inhibited whilst operating on HS1.

The power supply at the North Kent line connection, and the Ashford domestic connecting lines, is through conventional NRIL 750V DC third rail system.

3.3.3 Traffic Control and Communication Systems

The ACC is the combined traffic control, signalling control, electrical control and a communication centre for HS1 and is responsible for all day-to-day railway operating activities.

3.3.3.1 Signalling Systems

The TVM430 in-cab system is used throughout HS1, except at interfaces with the NR Network, where TVM interfaces with standard UK lineside signalling. St Pancras International Station and its approaches are controlled by lineside signalling. Rolling stock must be fitted with one or more of the following train control systems and configured for operation on HS1:

- (a) TVM430 or ERTMS/ETCS with STM;
- (b) for all connecting lines onto the NR Network, AWS/TPWS is needed; and/or
- (c) for St Pancras International Station and its approaches, KVB is required.

Please also refer to section 3.3.3.4 for more details.

3.3.3.2 Traffic Control System

Trains on HS1 are regulated according to train regulation policies agreed in accordance with Part H of the HS1 Network Code. Traffic is regulated by the management of real time performance. The ACC operates the overall traffic management system which contains the following:

- (a) automated route setting;
- (b) automated conflict resolution; and
- (c) train graphing technology for perturbation management and very short term train planning (VSTP).

3.3.3.3 Communication System

GSM-R is installed throughout HS1, albeit, at the date of publication of this Network Statement, it is used only as a general purpose radio. Until such time as GSM-R is implemented on HS1 for secure track-to-train radio, all trains must be fitted with Cab Secure Radio, complying with BR1845 Issue H (including the October 1995 amendment) and BR 1989 specifications.

3.3.3.4 Automatic Train Control Systems (ATCS)

The automatic train control systems on HS1 are as follows:

Passenger trains operating on HS1	TVM 430 plus KVB
Freight Trains operating on HS1 (except St Pancras International Station)	TVM 430 plus compatibility to operate APC magnets located on HS1
Freight trains requiring access to St Pancras International Station	Only permitted under special arrangements
Trains intending to operate in addition across the NR Network/ HS1 interface	AWS/TPWS compliant with Railway Group Standard GE/RT8030
Trains fitted with ERTMS/ETCS	STM required to interface with TVM 430

Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

3.4 Traffic Restrictions

3.4.1 Specialised Infrastructure

Following consultation, HS1 has been declared as Specialised Infrastructure as described in Directive 2001/14/EC Article 24 and Regulation 22 of the Rail Regulations 2005.

The effect of the declaration is that HS1 is designated for use by specified types of rail service and may give priority to that specified type of rail service in the allocation of capacity. These priorities are as follows (from highest to lowest):

- (a) High Speed International Passenger Trains;

- (b) High Speed Domestic Passenger Trains;
- (c) High Speed Freight Trains; and
- (d) Other Trains.

For the duration of the Olympic Games 2012 timetable, the priorities will be (from highest to lowest):

- (a) High Speed Domestic Passenger Trains;
- (b) High Speed International Passenger Trains;
- (c) High Speed Freight Trains; and
- (d) Other Trains.

3.4.2 Environmental Restrictions

TOCs are required to provide the Infrastructure Manager with copies of their current environmental policy and environmental management systems. A TOC's environmental policy must have due regard to the environmental policy of the Infrastructure Manager and adopting good industry practice in relation to energy efficiency. Further environmental restrictions applicable to HS1 can be found in Part E of the HS1 Network Code. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

Rolling stock must be configured so that EMC emissions comply with adjacent NRIL and Channel Tunnel requirements as well as those of HS1.

3.4.3 Dangerous Goods

Please refer to Section 2.7.

3.4.4 Tunnel Restrictions

Tunnel restrictions on HS1 apply as follows:

- (a) Structure gauge: please refer to section 3.3.1.2 and 3.3.2.1 for further details;
- (b) Emissions (particularly in respect of tunnels) must be assessed through the Rolling Stock Acceptance Process. Please refer to section 2.8 for further details; and
- (c) HS1 tunnels have been designed for a certain aerodynamic specification. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

3.4.5 Bridge Restrictions

Bridge restrictions on HS1 apply as follows:

- (a) Must conform to structure gauge please refer to section 3.3.1.2 and 3.3.2.1 for further details;

- (b) Maximum axle load please refer to section 3.3.2.2 for further details; and
- (c) In the event of extreme high winds (i.e. wind speeds over 160km/h) a speed restriction will be placed on the Medway Viaduct. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

3.5 Availability of the Infrastructure

HS1 remains closed on 25 December every year. However, the TOCs may apply to operate train services on this day and the Infrastructure Manager may accommodate such requests.

For further restrictions on the availability of HS1, please refer to Rules of the Route as set out in section 2.5.1.5. Please note that it is proposed to amend the name "Rules of the Route" to "Engineering Access Statement" as part of the proposed changes to Part D of the HS1 Network Code as described in Section 2.5.1.1. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

3.6 Passenger Stations

Please refer to section 3.3.1.3 for information about the Stations.

3.7 Freight Terminals

None available on HS1.

3.8 Service Facilities

3.8.1 Train Formation Yards

None available on HS1.

3.8.2 Storage Sidings

Save as expressly provided below, the Infrastructure Manager will normally restrict access to the sidings described below to network services or to defective rolling stock which is awaiting retrieval.

There is a short network service maintenance siding at St Pancras International Station connecting HS1 with the NR Network (Midland Main Line); however there are restrictions placed upon its use for commercial passenger and freight movements.

Ripple Lane Exchange Sidings are part of HS1 and maybe used for certain types of train movements.

There is a turnback siding located in Church Path Pit (Ebbsfleet International Station).

There are head-shunts (i.e. short sidings which could be used for berthing of network service trains, crippled wagons etc.) at the country end of the Up Loop at Singlewell and at both ends of the Up Loop at Lenham Heath.

Please refer to the HS1 Sectional Appendix for details. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

3.8.3 Other Facilities (off HS1)

Ashford Depot: Hitachi Europe Limited has facilities which can undertake berthing, light servicing, light and heavy maintenance of train sets which are compatible with Class 375, 395 and 465 units. This depot is not part of HS1. Please contact Hitachi Europe Limited for further information at the address set out in section 1.8.3.

Temple Mills Depot: EIL has facilities which can undertake berthing, light servicing, light and heavy maintenance of train sets which are compatible with Class 373 units at its Temple Mills Depot. This depot is not part of HS1. Please contact EIL for further information at the address set out in section 1.8.2.

Dollands Moor Freight Yard: DB Schenker Rail (UK) Limited ("DBS") is the facility owner of this railway freight yard near Folkestone in Kent. Please contact DBS for further information at the address set out in section 1.8.4.

3.9 Infrastructure Development

In addition to alterations planned at Stratford International Station to facilitate the Olympic Games 2012, the Infrastructure Manager is considering the following specific upgrade programmes:

- (a) Signalling system: Large scale replacement of the current signalling infrastructure with a more advanced system conforming to European standards and providing enhanced capacity to the network;
- (b) Control system: New versions of the Rail Control and Engineering Management systems (EMS); and
- (c) Ballast / track form / sleepers: Large scale replacements of the track base which aim to improve the speed, diagnostics and useful life of the whole of the line.

4. CAPACITY ALLOCATION

4.1 Introduction

In accordance with the Rail Regulations 2005, the Infrastructure Manager will ensure that capacity on HS1 is allocated in a fair and non-discriminatory manner.

Please note that certain changes are proposed to Part D of the HS1 Network Code to bring in line with Part D of the NRIL Network Code. The Infrastructure Manager intends to consult on the proposed changes to Part D of the HS1 Network Code by the end of 2011.

4.2 Description of Process

- 4.2.1** As contemplated by Regulation 18 of the Rail Regulations 2005, the reservation of capacity on HS1 will be undertaken by the Infrastructure Manager through entering into a Framework Track Access Agreement or a Track Access Agreement with the relevant Applicant. The capacity rights under a Framework Track Access Agreement or a Track Access Agreement are translated into Train Slots in the timetable through the timetabling process. Details of the timetabling process are found in Part D of the HS1 Network Code, and described in section 4.4.1 below.

4.2.2 Where an Applicant has requested and has been allocated capacity on HS1 in accordance with Regulation 19(1) or 21(1) of the Rail Regulations 2005 and it has not entered into a Framework Track Access Agreement, it will be required to enter into a Track Access Agreement with the Infrastructure Manager. The Track Access Agreement will expire at the end of the relevant timetable period and will only reflect the capacity which has been allocated to that Applicant through the timetabling process (i.e. the train paths allocated to that Applicant for the relevant timetable period).

4.3 Schedule for Path Requests and Allocation Process

The Infrastructure Manager follows the process and timeline for scheduling path requests as specified in Part D of the HS1 Network Code.

4.3.1 Schedule for Working Timetable

Part D of the HS1 Network Code sets out the procedures by which the Working Timetable, Rules of the Route and Rules of the Plan may be changed. Although changes may be made to the Working Timetable at any time, significant changes in the Passenger Timetable may be made only twice a year, namely at the dates referred to as the Principal Change Date and the Subsidiary Change Date.

4.3.2 Schedule for requests for train paths outside the timetabling process

Where TOCs wish to obtain additional train paths or amend any of their existing paths, the Infrastructure Manager will endeavour to process such requests in line with the process used for Spot Bids as set out in Condition D6 of the HS1 Network Code, and described in section 4.4.1.5 below.

Where a TOC is seeking an additional train path in excess of the capacity it has reserved in its Framework Track Access Agreement or Track Access Agreement, a supplemental agreement would be required to grant the additional rights. If the supplemental agreement constituted a framework agreement under the Rail Regulations 2005 or amended the existing Framework Track Access Agreement the Infrastructure Manager and the TOC would need to obtain the approval of the ORR.

4.4 Allocation Process

4.4.1 Co-ordination Process

4.4.1.1 Each year at or before the start of the timetable development process there will be a dialogue between the Infrastructure Manager and each Applicant regarding the Base Timetable. Each Applicant will notify the Infrastructure Manager of any changes to the Base Timetable Train Slots that it seeks to make. Regulation 16(4A) of the Rail Regulations 2005 requires an Applicant that applies for infrastructure capacity with a view to operating an international passenger service to give a notice of that fact to the Infrastructure Manager and the ORR and provide them with such information as the ORR may reasonably require or prescribe.

4.4.1.2 Following the issue of the Base Timetable, the Infrastructure Manager shall consult with the Applicants for establishing the Working Timetable. New applicants requiring a copy of the Base Timetable should contact the Infrastructure Manager at the address set out in section 1.8.1. Applicants with Framework Track Access Agreement(s) with the Infrastructure Manager shall, on or before a specified date known as the priority date, notify the Infrastructure Manager of the Train Slots they wish the Infrastructure Manager to timetable

in the Working Timetable from the capacity reserved by them in their Framework Track Access Agreement(s). Applicants not having a Framework Track Access Agreement with the Infrastructure Manager shall also notify their aspirations for timetabled Train Slots.

- 4.4.1.3 Taking into account the notifications made by the Applicants and the decision criteria set out in Condition D8 of the HS1 Network Code, the Infrastructure Manager will prepare and issue a draft timetable on or before the last day of the Drafting Period.
- 4.4.1.4 Following the issue of the draft timetable, the Infrastructure Manager will continue to work with Applicants to further refine the timetable to include any new aspirations of the Applicants. It is not intended that significant service changes should be introduced at this stage but changes may be introduced to the extent that it is reasonably practicable to do so in the available time. Following such modifications, the Infrastructure Manager will make a formal offer of the proposed First Working Timetable and Applicants will have a right of appeal against the Infrastructure Manager's decisions reflected in that timetable by referring the matter to be determined under the Disputes Resolution Agreement.
- 4.4.1.5 Spot Bids may be made during the period of operation of a Working Timetable or during the Supplemental Period. As a general rule, Spot Bids are given priority on a first in time basis; however, the Infrastructure Manager may exercise the Flexing Right to resolve conflicts between Spot Bids. If a Spot Bid is received by the Infrastructure Manager in relation to a sporting or other public event which, if accepted, would conflict with any train slot in the Working Timetable, the Infrastructure Manager shall consult with the TOC entitled to the train slot with a view to obtaining its consent to the Infrastructure Manager exercising the Flexing Right to accommodate the Spot Bid. If, as a result of exercising its Flexing Right, the Infrastructure Manager is required to make any payment to a TOC under that TOC's Framework Track Access Agreement or Track Access Agreement, the TOC whose Spot Bid was accommodated by the exercise of that Flexing Right shall reimburse to the Infrastructure Manager the amount of that payment.
- 4.4.1.6 Each year, at the start of the timetable development process, the Infrastructure Manager is obliged to review the applicable Rules of the Route and applicable Rules of the Plan and decide if any amendments should be made in respect of the period of the annual timetable commencing on the next Principal Change Date. In addition, each year, at the start of the process for development of the timetable changes applying from the Subsidiary Change Date, the Infrastructure Manager is obliged to undertake a more limited review of the applicable Rules of the Route and the applicable Rules of the Plan.
- 4.4.1.7 In respect of each Timetable Week, where the Infrastructure Manager requires restrictions of use in order to undertake engineering work on HS1, the Infrastructure Manager will notify TOCs of the changes it proposes to make to the allocation of capacity and timetable structure in the relevant week and whether it requires TOCs to submit Revised Bids for timetable slots for that week. The Infrastructure Manager in consultation with TOCs will then compile a revised timetable taking into account any Revised Bids received in the same timescale.
- 4.4.1.8 Please note that certain changes are proposed to Part D of the HS1 Network Code to bring in line with Part D of the NRIL Network Code. The Infrastructure Manager intends to consult on the proposed changes to Part D of the HS1 Network Code by the end of 2011.

4.4.2 Dispute Resolution Process

See section 1.4.3 for information on the appeals procedure.

4.4.3 Congested Infrastructure; Definition, Priority Criteria and Process

4.4.3.1 Under regulation 23 of the Rail Regulations 2005, the Infrastructure Manager must declare the relevant element of HS1 to be congested if:

- (a) after the co-ordination of requests for capacity and consultation with the Applicants in accordance with regulation 20(4), it is not possible for the Infrastructure Manager to satisfy requests for infrastructure adequately; or
- (b) during the preparation of the Working Timetable for the next timetable period, the Infrastructure Manager considers that an element of HS1 is likely to become congested during the period to which that Working Timetable relates.

HS1 is currently not a congested network within the above definition.

4.4.3.2 In the event that all or part of HS1 becomes congested, the Infrastructure Manager will follow the process set out below to manage the congestion. The process comprises the following stages:

- (a) Stage 1: Identification of the congested network segment and /or time zone;
- (b) Stage 2: Undertake capacity analysis;
- (c) Stage 3: Negotiation of a commercial resolution;
- (d) Stage 4: Application of the regulatory framework to prioritise requests; and
- (e) Stage 5: Determination of a specific investment resolution.

4.4.4 Impact of Declaration of Congested Infrastructure

Where HS1 has been declared congested under the Rail Regulations 2005, Condition J4 of the HS1 Network Code obliges the Infrastructure Manager and each TOC to work together with a view to developing amendments to the HS1 Network Code the purpose of which are to ensure that the Infrastructure Manager is not in breach or default due to such congestion.

4.5 Allocation of Capacity for Maintenance, Renewal and Enhancement

The process for establishing the allocation of capacity for maintenance, renewal and enhancements through the Rules of the Route is described in section 2.5.1.5 and the integration of these arrangements into timetable development is addressed in section 4.4.1.

Where it is necessary to refine the established Rules of the Route in order to deal with short-term changes relating to individual Possessions on HS1, either the Infrastructure Manager or TOCs may propose changes to the Rules of the Route through a process which is contained in the Rules of the Plan.

The relevant Framework Track Access Agreement or the Track Access Agreement will set out the provisions for the compensation to be payable by the Infrastructure Manager when it seeks to place restrictions of use on HS1 for the purposes of carrying out inspections, maintenance, repair, renewal and enhancement works on HS1. Under the Possessions regime applicable on HS1, the relevant TOC will be entitled to recover its direct costs arising from a restriction of use placed by the Infrastructure Manager. The direct costs recoverable by a TOC for any restriction of use (other than a competent authority

restriction of use and a network change restriction of use) each year are capped at 1% of an amount equal to the aggregate of total IRC and OMRC payable by such TOC in the relevant year in the case of a passenger TOC and 1% of the aggregate Freight OMRC payable by such TOC in the relevant year in the case of a freight TOC.

Please note that it is proposed to amend the name “Rules of the Route” to “Engineering Access Statement” and “Rules of the Plan” to “Timetable Planning Rules” as part of the proposed changes to Part D of the HS1 Network Code as described in Section 2.5.1.1.

4.6 Non-Usage/Cancellation Rules

Part J of the HS1 Network Code provides a mechanism for a “use it or lose it” regime for HS1 which will enable the Infrastructure Manager to alter access rights where capacity is not being used. Under this mechanism capacity can be made available to other users if any TOC fails to bid for Train Slots as part of a timetabling process for two consecutive timetable years commencing on or after the Principal Change Date in December 2010 unless the TOC has a reasonable, commercial need for the unused capacity.

It will also require the surrender of Train Slots which are allocated but are not being utilised and such non-use exceeds certain thresholds. For the purposes of Regulation 18(9C) of the Rail Regulations 2005 the threshold quota is as set out in Condition J2.2.1 of Part 5 of the HS1 Network Code.

In case of such failure to bid for Train Slots or failure to use allocated Train Slots, the relevant TOC will be granted a rebate on its access charges.

Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

4.7 Exceptional Transports and Dangerous Goods

The TOC is obliged to state whether the transport that it wants to run has a load of such nature that it must be run as an exceptional transport, or if the individual train is carrying dangerous goods as well as if the train itself is classified as a danger class. Please refer to sections 2.6 and 2.7 for further details.

4.8 Special Measures to be taken in the Event of Operational Disruption

4.8.1 Principles

The measures to be undertaken in the case of disruption or anticipated disruption so as to sustain, and where necessary restore, operation of train services on HS1 in accordance with the Working Timetable are set out in Part H of the HS1 Network Code.

4.8.2 Operational Regulation

When a Disruptive Event occurs, the Infrastructure Manager will determine the appropriate actions to restore the Working Timetable as soon as is reasonably practicable, taking into account the needs of passengers and freight customers, the interests of safety and security and the efficient and economic operation of trains and HS1. TOCs are required to co-operate as regards such actions, which may include the provision of trains/locomotives and train crew to clear the line. The Infrastructure Manager will lead the process of development and maintenance of contingency plans and codes of practice which can be implemented in cases of Disruptive Events. Where a Disruptive Event is expected to

continue for an extended period it is usual for an amended timetable to be prepared by the Infrastructure Manager in consultation with the affected TOCs.

4.9 Performance Regime

Regulation 14 of the Rail Regulations 2005 provides that an infrastructure manager must establish a performance regime as part of the charging system to encourage railway undertakings and the infrastructure manager to minimise disruption and improve the performance of the railway network. The Infrastructure Manager has developed a performance regime which will be incorporated in the relevant Framework Track Access Agreement or the Track Access Agreement. Please refer to Appendix 2 for more details.

5. SERVICES

5.1 Introduction

5.1.1 Regulation 7(1) of the Rail Regulations 2005 obliges the Infrastructure Manager to provide the following services to the TOCs:

- (a) the minimum access package (as set out in section 5.2 below); and
- (b) track access to service facilities and the supply of services (as set out in section 5.3 below).

5.1.2 Regulation 7(5) of the Rail Regulations 2005 provides that an infrastructure manager may offer and provide the additional services as set out in section 5.4 below.

5.1.3 Regulation 7(6) of the Rail Regulations 2005 provides that a TOC may request the supply of any of the ancillary services as set out in section 5.5 below from an infrastructure manager but the infrastructure manager is under no obligation to supply the services requested.

5.2 Minimum Access Package

The minimum access package as described in schedule 2 of the Rail Regulations 2005 comprises the following:

- (a) handling of requests for infrastructure capacity; and
- (b) the right to utilise capacity which is granted, in particular:
 - (i) the right to use running track points and junctions as are necessary to utilise that capacity;
 - (ii) train control including signalling, regulation, dispatching and the communication and provision of information on train movements; and
 - (iii) all other information required to implement or operate the service for which capacity has been granted.

5.2.1 Handling of Requests for Infrastructure Capacity

This service refers to the processes outlined in section 4 (Capacity Allocation).

5.2.2 The Right to Utilise Capacity which is Granted

Under a Framework Track Access Agreement or a Track Access Agreement (as applicable), the Infrastructure Manager may grant a TOC permission to use certain capacity on HS1 subject to the timetabling process. This means permission to use the track comprised in the specified routes for the provision of railway passenger or freight services using the railway vehicles specified in the agreement. Such permission is subject to the HS1 Codes, the Rules of the Route and the Rules of the Plan. Under a Station Access Agreement, the Station Facility Owner grants permission to use the relevant Station in accordance with the terms of the Station Access Conditions. Please note that it is proposed to amend the Station Access Conditions. The Infrastructure Manager is in the process of concluding the consultation process.

5.3 Track Access to Service Facilities and Supply of Services

5.3.1 Use of Electrical Supply Equipment for Traction Power

Power will be supplied to the TOCs by the Infrastructure Manager to facilitate the access rights granted to a TOC under the relevant Access Agreements and the supply equipment will be provided accordingly, so as to support that supply provision. Please refer to section 3.3.2.6 for further details.

5.3.2 Refuelling Facilities

Does not apply to HS1.

5.3.3 Passenger Stations, Buildings and Other Facilities

Please refer to section 3.3.1.3 for further details.

5.3.4 Freight Terminals

Does not apply to HS1.

5.3.5 Marshalling Yards

Does not apply to HS1.

5.3.6 Train Formation Facilities

Does not apply to HS1.

5.3.7 Storage Sidings

Please refer to section 3.8.2 for further details.

5.3.8 Maintenance and Other Technical Facilities

The infrastructure maintenance depot for HS1 is located at Singlewell. This is not a rolling stock maintenance facility. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

Please refer to section 3.8.3 for further information on the facilities off HS1.

5.4 Additional Services

5.4.1 Traction Current

Traction electricity will be supplied to the TOCs by the Infrastructure Manager to facilitate the access rights granted to a TOC under the relevant Access Agreements. Please also refer to section 3.3.2.6 for further details.

5.4.2 Supply of Fuel

Does not apply to HS1.

5.4.3 Services for Trains (Preheating, Water Supply, Toilet Waste Handling, etc.)

There are catering shore-base facilities at St Pancras International Station and shore supplies for watering on Platforms 1-4 at St Pancras International Station. These services will be subject to available capacity and technical compatibility. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

5.4.4 Shunting and Other Services

Does not apply to HS1.

5.4.5 Services for Exceptional Transports and Dangerous Goods

A risk assessment service in respect of compatibility with HS1 may be provided by the Infrastructure Manager as part of the route acceptance procedure for exceptional transport and dangerous goods.

5.4.6 Any Other Additional Services

Not provided on HS1.

5.5 Ancillary Services

5.5.1 Provision of Supplementary Information

There will be a charge for the provision of supplementary information which will be assessed on the nature and scope of the information being requested and levied in accordance with the Rail Regulations 2005.

5.5.2 Any Other Ancillary Services

Police services for HS1 are procured by the Infrastructure Manager. TOCs make their own arrangements for policing on trains. International policing and security arrangements apply for international TOCs who must make their own arrangements in that regard except at the Stations.

Vehicle Health Monitoring Equipment ("VHME") is provided on HS1.

Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

6. CHARGES

6.1 Charges for Passenger Train Services

The Secretary of State has established a charging framework for HS1 under the Rail Regulations 2005. The charges to be paid by the TOCs operating their railway services on HS1 will be calculated and charged in accordance with such charging framework.

6.1.1 Track Access Charges

The track access charges to be paid by a passenger TOC for reservation of capacity and use of HS1 (except Stations) comprise the following components:

- (a) Investment Recovery Charge;
- (b) Operations, Maintenance and Renewal Charge;
- (c) Traction Electricity Charge;
- (d) Capacity Reservation Charge (including a potential rebate on such charge);
- (e) Congestion Tariff;
- (f) Other Services Charge;
- (g) In the case of Franchised TOCs, the freight supplement; and
- (h) Carbon Costs.

(a) Investment Recovery Charge ("IRC")

Principles

The purpose of the IRC is to recover part of the long term capital costs of the HS1 project (i.e. in accordance with paragraph 3 of Schedule 3 to the Rail Regulations 2005);

Approach

The IRC will be charged on the basis of the chargeable journey time spent by a relevant TOC's trains on HS1. The chargeable journey time does not take into account any time scheduled in the Working Timetable for stopping at a Station. This is consistent with the approach of not imposing IRC on the use of the Stations by TOCs.

Volume risk in respect of the IRC rests with the Infrastructure Manager. As part of its strategy to manage this risk, the Infrastructure Manager may introduce schemes granting discounts, with reference to specific traffic flows, to encourage the use of HS1 as permitted by paragraph 6 of schedule 3 of the Rail Regulations 2005. The Infrastructure Manager has published a consultation in respect of its proposed discount policy which is available on its website on the following link: <http://highspeed1.co.uk/regulatory/consultation>.

Implementation

The IRC per train per minute will be £69.57 (February 2009 prices) subject to indexation. Indexation is applied semi-annually based on changes in the retail price index. This is the maximum IRC permitted to be charged under the Secretary of State's charging framework established under the Rail Regulations 2005. For each service group, the IRC per train per minute is multiplied by the chargeable journey time of a train, a discount factor (catering for any applicable discount) and an indexation factor. The resulting figure is then multiplied by the number of timetabled trains in the service group for the relevant period which gives the IRC to be paid by the relevant TOC in respect of that period and service group. Indexation is applied semi-annually based on changes in the retail price index.

The number of chargeable minutes per train to be used in the calculation of IRC will be specified by service group in the Framework Track Access Agreement or the Track Access Agreement for the relevant TOC. Total trains for each period will be calculated on the basis of the timetabled paths for the relevant period (as set out in the First Working Timetable (as defined in Part D of the HS1 Network Code) together with any services operated pursuant to a Spot Bid (as defined in Part D of the HS1 Network Code)) and not the actual paths used. Please note that certain changes are proposed to Part D of the HS1 Network Code to bring in line with Part D of the NRIL Network Code. The Infrastructure Manager intends to consult on the proposed changes to Part D of the HS1 Network Code by the end of 2011. The recovered charge will be adjusted annually to take account of the number of additional services operated by a TOC as a result of Spot Bids less any scheduled services which could not be operated by that TOC:

- (i) due to a restriction of use;
- (ii) as a result of a Suspension Notice (as defined in the HS1 Passenger Access Terms being served by the TOC; or
- (iii) as a result of the exercise by the Infrastructure Manager of its rights under Part J of the HS1 Network Code.

The following table shows IRC per passenger train service (February 2009 prices) on the basis of the chargeable journey times for services currently operating on HS1:

	International passenger services	Domestic passenger services to Ashford International Station	Domestic passenger services to Ebbsfleet International Station	Domestic passenger services to Springhead
Chargeable Journey Time	31 minutes	31 minutes	14 minutes	16.5 minutes
IRC per train service	£2,156.67	£2,156.67	£973.98	£1,147.91

Review

In the event that there is further investment in relation to HS1, the Infrastructure Manager will seek to recover this additional investment through an additional IRC, subject to the approval of the ORR.

(b) Operations, Maintenance and Renewal Charge ("OMRC")

Principles

The purpose of the OMRC is to recover the operations, maintenance and renewal costs of HS1 (other than the Stations).

Cost Apportionment

In determining the OMRC for passenger train services, a distinction has been drawn between:

- (i) costs directly incurred as a result of operating the train service (the charges for which are levied under the general charging principle); and
- (ii) common costs, which are apportioned between passenger services on the basis of chargeable minutes spent on HS1 (the charges for which are levied on the basis of the long-term costs of the operational phase of the HS1 project).

A further distinction is drawn between (a) costs which are "at risk" for the Infrastructure Manager and (b) costs which are passed through to TOCs "at cost" albeit subject to review by the ORR to confirm that they have been efficiently incurred. The charges for operation, maintenance and renewal costs that are "at risk" are determined at the outset of each control period (initially the period to 31 March 2015 and thereafter each period of 5 successive years) and the Infrastructure Manager bears the risk that outturn costs exceed the costs assumed for the purpose of setting that element of the OMRC. Charges for costs which are passed through to TOCs "at cost" are charged on an estimated basis with an annual "wash up" to adjust for the difference between estimated costs (used for setting charges initially) and outturn costs.

Appendix 1 contains further details of the apportionment of the operations, maintenance and renewal costs between TOCs, including with respect to indexation.

Implementation

Operations, maintenance and renewal costs are apportioned as set out above and the resultant OMRC expressed as an amount per train per minute.

The OMRC per train per minute will be multiplied by the chargeable journey time of a train and (except for those costs that are passed through to TOCs "at cost") an indexation factor. The resulting figure is then multiplied by the number of timetabled trains in the service group for the relevant period which gives the OMRC to be paid by the relevant TOC in respect of that period and service group. For those costs which are "at risk", indexation is applied annually based on the retail price index plus 1.1 percentage points.

Those operations, maintenance and renewal costs that are directly incurred as a result of operating the train service will be recovered by the Infrastructure Manager initially on the basis of the First Working Timetable. The recovered charges will be adjusted annually insofar as they relate to variable (rather than avoidable) directly incurred costs to take account of the number of additional services operated by a TOC as a result of Spot Bids (as defined in Part D of the HS1 Network Code) less any scheduled services which could not be operated by that TOC:

- (i) due to a restriction of use;

- (ii) as a result of a Suspension Notice (as defined in the hS1 Passenger Access Terms);
- (iii) as a result of the exercise by the Infrastructure Manager of its rights under Part J of the HS1 Network Code; or
- (iv) as a result of any cancellation of a service which is attributed to the Infrastructure Manager.

As previously noted, those costs which are passed through to TOCs “at cost” will be recovered by the Infrastructure Manager initially on the basis of an estimate of such costs. The recovered charges will be adjusted annually to reflect any difference between estimated and outturn costs.

Indicative figures for OMRC per train per minute are shown in the following table (February 2009 prices), subject to indexation and to review as described below:¹

	International passenger services (Class 373)	Domestic passenger services to Ashford International Station (Class 395)	Domestic passenger services to Ebbsfleet International Station (Class 395)
Chargeable Journey Time	31 minutes	31 minutes	14 minutes
OMRC per train per minute	£48.14	£37.21	£37.21
OMRC per train service	£1,492.24	£1,153.51	£520.94

Review

In accordance with the provisions of the Concession Agreement, the ORR will conduct periodic reviews of the Infrastructure Manager's OMRC. The first such periodic review will take effect on 1 April 2015 and thereafter periodic reviews will take effect at 5-yearly intervals. In addition, the Infrastructure Manager can ask the ORR to carry out an interim review of the OMRC if there is a material and significant change to the circumstances upon which the current OMRC was determined or approved such that the level of OMRC is materially insufficient to enable the Infrastructure Manager to comply with its obligations under the Concession Agreement. If the level of the operations, maintenance and renewal costs is revised pursuant to a periodic or interim review, the OMRC per train per minute will be revised by the Infrastructure Manager by apportioning the revised operations, maintenance and renewal costs among the TOCs on the basis described in Appendix 1.

Under the Framework Track Access Agreements and Track Access Agreements, the Infrastructure Manager will also re-apportion operations, maintenance and renewal costs between TOCs on the basis described in Appendix 1 in circumstance where:

- (i) Total timetabled train movements on HS1 in respect of a new Timetable Period are at least 4% more or less than the number of total timetabled train movements in

¹ The figures in this table have been determined on the basis of the vehicle types currently proposed for these services – i.e. Class 373 for international and Class 395 for domestic services. Different vehicle types are likely to give rise to a different "cost directly incurred as a result of operating the train service" and hence a different OMRC, although the common cost element of OMRC will not be affected by this. Please contact the Infrastructure Manager at the address set out in section 1.8.1 to obtain indicative figures for different rolling stock types.

the 12 month period following the last such revision or re-apportionment, excluding any change as a consequence of the Olympic Games 2012; or

- (ii) Any TOC's timetabled train movements on HS1 in respect of a new Timetable Period are at least 4% more or less than such TOC's timetabled train movements in the 12 month period following the last such revision or re-apportionment, excluding any change as a consequence of the Olympic Games 2012. This subparagraph will not apply in respect of freight operations.

(c) Traction Electricity Charge

If traction electricity is procured by the Infrastructure Manager on behalf of the TOCs, all charges that the Infrastructure Manager incurs in respect of traction electricity will be passed through to the TOCs. The traction electricity charge is arrived at by calculating the product of the calibrated modelled consumption rate of the relevant rolling stock, a rate for traction current as published by the Infrastructure Manager (including an uplift to that amount to take account of transmission losses and specific charges levied by the UK national grid provider) and the usage measured in vehicle-kilometres. There is an annual adjustment to reflect any difference between the modelled and actual cost of traction electricity.

TOCs have the option to procure their own traction electricity with the prior written consent of the Infrastructure Manager. The relevant TOC shall bear all expenses, payments, liabilities, costs and losses (including transmission losses) with regard to the procurement of traction electricity itself and of any additional metering equipment or system costs required for implementation and administration.

(d) Capacity Reservation Charge (including a potential rebate on such charge)

Regulation 15 of the Rail Regulations 2005 authorises an infrastructure manager to levy an appropriate charge for capacity that is requested but not used. The Infrastructure Manager proposes to levy such reservation charges under the relevant Framework Track Access Agreement. The reservation charge per passenger train will be set at 25% of the full IRC per train path (ignoring any discount on IRC). This will be a flat charge which does not vary by time of day or day of week.

A TOC may surrender some or all of its reserved capacity rights by providing notice to this effect to the Infrastructure Manager. Any such notice shall specify the number of the reserved capacity rights to be surrendered and shall take effect at the end of the timetable year following the timetable year in which the notice is served. When such notice takes effect the reserved capacity rights referred to in such notice as being surrendered shall cease to be firm rights.

Where a TOC ("TOC A") has reserved capacity which is utilised by another TOC ("TOC B") then TOC A is entitled to a rebate on its capacity reservation charge. This is calculated as 75% of the lower of:

- (a) the capacity reservation charge paid by TOC A; and
- (b) where TOC B is a passenger TOC, the amount of the IRC paid by TOC B or, where TOC B is a freight TOC, 75% of the OMRC paid by TOC B.

(e) Congestion Tariff

Paragraph 1(8) of Schedule 3 of the Rail Regulations 2005 authorises an infrastructure manager to levy a charge to reflect the scarcity of capacity of the identifiable segment of the infrastructure during a period of congestion. If at any time HS1 becomes congested within the meaning of regulation 23 of the Rail Regulations 2005, the Infrastructure Manager will consider the possibility of conducting an auction for capacity on HS1, which could give rise to a congestion tariff.

(f) Other Services Charges

There may be bespoke ancillary services provided to a particular passenger TOC. The actual costs incurred by the Infrastructure Manager in providing these services will be paid by the relevant passenger TOC to the Infrastructure Manager.

(g) Freight Supplement

Franchised TOCs will be subject to an additional charge levied under paragraph 2 of Schedule 3 to the Rail Regulations 2005 in respect of stranded costs arising from the freight charging arrangements described in section 6.2 below. The charge is levied on the basis that franchised TOCs are best able to bear such charges due to their franchise agreement with the Secretary of State.

(h) Carbon Costs

The Carbon Costs in a relevant period shall be the fair and equitable proportion (as determined by the ORR) of all costs, expenses and any other financial liabilities relating to the carbon reduction commitment (to be introduced pursuant to Part 3 of the Climate Change Act 2008) incurred by the Infrastructure Manager which relate to such period.

6.1.2 Station Access Charges

The Station Access Charges comprise:

- (a) Common charges; and
- (b) Exclusive charges.

(a) Common Charges: The common charges are made up of the following components:

- (i) Qualifying expenditure:** This is the operating and maintenance expenditure described in the Station Access Conditions and relevant Annexes incurred by the Infrastructure Manager during any accounting year/half accounting year calculated in accordance with the formula specified in the Station Access Conditions and relevant Annexes. The formula apportions the qualifying expenditure between TOCs by taking into account a combination of each TOC's vehicle departures at the Station and the relative size of the international, domestic and common areas at the relevant Station. The qualifying expenditure is levied on all TOCs using the relevant Station.
- (ii) Long term charge:** The long term charge will reflect the Infrastructure Manager's costs of the renewal and repair activities at each Station. The charge will be recovered from all TOCs whose services stop at the Station in proportion to the number of vehicle departures for each TOC and the relevant sizes of the different areas at the Station. The amount

of the long-term charge will be specified in the relevant Annexes to the Station Access Conditions for each Station and will be reviewed as per the specified formula.

- (b) **Exclusive Charges:** These are the charges to be paid by the respective TOC for any bespoke services provided by the Infrastructure Manager to such TOC at the relevant Station.

6.2 Charges for Freight Train Services

6.2.1 Track access charges for freight train services will consist of the following components:

- (a) Freight OMRC;
- (b) Traction Electricity Charge;
- (c) Capacity Reservation Charge (including a potential rebate on such charge);
- (d) Congestion Tariff;
- (e) Other Services Charge; and
- (f) Carbon Costs.

(a) Freight OMRC

Freight OMRC comprises only the costs directly incurred as a result of operating freight train services (the charges for which are levied under the general charging principle). These consist only of operations, maintenance and renewal costs which would not be incurred, or would be "avoidable", in the absence of freight train services on HS1. In determining such avoidable costs, account has been taken of the cost of mothballing freight-only elements of HS1, with such costs being treated as common costs. Subject to the final paragraph of this section (a), freight operators will not be charged common costs.

Following the above charging principles, freight services are charged per timetabled return journey. The "base case" freight timetable used in the calculation of freight costs and charges was five high-cube return journeys from the Channel Tunnel Boundary to Ripple Lane per night. On the basis of this timetable, the freight charges for HS1 would be £1,257.74 per return journey or £7.13 per train-km (February 2009 prices) subject to indexation².

By virtue of paragraph 6 of schedule 3 of the Rail Regulations 2005, the Infrastructure Manager may introduce schemes granting discounts, with reference to specific traffic flows, to encourage the use of HS1. There will be a discount of £3.13 per train-km for freight train services operated at night on HS1 for a period of five years commencing in April 2010.

The Freight OMRC will be indexed annually based on the retail price index plus 1.1 percentage points.

In any year where the freight TOCs are required to pay the directly incurred costs to the Infrastructure Manager in full (i.e., without the benefit of a discount), the recovered charges will be adjusted annually to reflect any over-recovery of Freight OMRC.

² This is based on the type of rolling stock currently expected to use HS1. The Infrastructure Manager reserves the right to vary the charge for different types of rolling stock.

The Infrastructure Manager will review the Freight OMRC on the same basis as adopted for the review of OMRC relating to passenger train services.

The Infrastructure Manager wishes to encourage the development of new high speed freight markets and does not preclude the possibility that the profitability of services in such markets would enable them to make an increased or full contribution to all costs. More generally, the Infrastructure Manager reserves the right to charge freight TOCs (whether high-speed or otherwise) a mark-up in accordance with paragraph 2 of schedule 3 of the Rail Regulations 2005. The ORR will approve the level of any such mark-up and any such sums received by way of mark-up will be used to offset the operations, maintenance and renewal charge payable by passenger operations for the use of HS1.

HS1 has consulted the industry on the freight avoidable cost. The freight avoidable cost are the costs associated with track infrastructure used solely by freight and the non-track costs (such as staff time and other overheads) that are only incurred because of freight operation. In the consultation, HS1 sets out its proposal arising from the review of freight avoidable costs. The proposal is being reviewed by the ORR taking into account the comments received from the industry and is available on the HS1 website on the following link: <http://highspeed1.co.uk/regulatory/consultation>

(b) Traction Electricity Charge

Please refer to section 6.1.1(c).

(c) Capacity Reservation Charge

Regulation 15 of the Rail Regulations 2005 authorises an infrastructure manager to levy an appropriate charge for capacity that is requested but not used.

The Infrastructure Manager proposes to levy a reservation charge in respect of capacity reserved by freight TOCs. This will be set at 25% of the operations, maintenance and renewal charge which the freight TOC would pay if it were to operate a train pursuant to the reserved right. Any such sums received by the Infrastructure Manager by way of capacity reservation charge will be used to offset the Freight Supplement payable by the franchised passenger TOC.

(d) Congestion Tariff

Please refer to section 6.1.1(e).

(e) Other Services Charges

There may be bespoke ancillary services provided to a particular freight TOC. The actual costs incurred by the Infrastructure Manager in providing these services will be paid by the relevant freight TOC to the Infrastructure Manager.

(f) Carbon Costs

Please refer to section 6.1.1(h).

6.3 Charges for Testing Train Services

6.3.1 Track Access Charges for Testing

In so far as a TOC proposing to operate passenger services needs to operate non-passenger services during a testing period, it will be liable to pay all components of the track access charges as set out in section 6.1.1 above other than IRC and may be liable to pay an Additional Inspection Charge ("AIC"). The AIC will be payable by the TOC if a maintenance inspection is carried out as a direct consequence of the TOC carrying out the testing.

In so far as a TOC operates passenger services during a testing period, it will be liable to pay all of the components of the track access charges as set out in section 6.1.1 above and may also be liable to pay the AIC.

In so far as a TOC operates freight services during a testing period, it will be liable to pay all components of the track access charges as set out in section 6.2.1 above and may be liable to an AIC. The AIC will be payable by the TOC on the same basis as described above.

6.3.2 Station Access Charges for Testing

In so far as a TOC proposing to operate passenger services requires station access as part of running non-passenger services during a testing period, the TOC will be liable to pay a fixed sum of £1 as the station access charge. For running passenger services during a testing period, the TOC will be liable to pay all of the components of the station access charges as set out in section 6.1.2 above.

A TOC proposing to operate freight services during a testing period will not be liable for any station access charges.

6.4 Charges for Special Services

6.4.1 Track Access Charges for Special Services

The charges for access to HS1 which a TOC will be liable to pay as a result of the operation of a Special Service will depend upon its nature and duration. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

6.4.2 Station Access Charges for Special Services

Insofar as a TOC proposing to run a Special Service requires station access as part of its operation, the TOC will be liable to pay an access charge in respect of that station. The form and level of access charge will depend on the nature and duration of the Special Service, as well as any exclusive station services (as described in section 6.1.2(b) above) requested by the TOC. Please contact the Infrastructure Manager for further information at the address set out in section 1.8.1.

6.5 Performance Regime

Regulation 14 of the Rail Regulations 2005 provides that an infrastructure manager must establish a performance regime as part of the charging system to encourage railway undertakings and the infrastructure manager to minimise disruption and improve the performance of the railway network. The Infrastructure Manager has developed a

performance regime which is incorporated in the relevant Framework Track Access Agreement or Track Access Agreement. Please refer to Appendix 2 for more details.

6.6 Payments under the Possessions Regime

Please refer to section 4.5.

6.7 Billing Arrangements

The Infrastructure Manager will invoice the TOCs in accordance with the terms and conditions agreed in the relevant Access Agreements. Unless operating a Special Service, payment of the IRC, OMRC and the capacity reservation charge is to be made by the passenger TOCs quarterly in advance and payment of other charges are to be made each period in arrears. Freight operators will pay all charges each period in arrears. Please contact the Infrastructure Manager for further information in relation to the billing arrangements for a Special Service at the address set out in section 1.8.1. Terms and conditions relating to non-payment or late payment are set out in the relevant Access Agreements.

OPERATIONS, MAINTENANCE AND RENEWAL CHARGE

In determining OMRC, the Infrastructure Manager has adopted the following approach:

1. First, a distinction has been drawn between:

- those costs which are directly incurred as a result of operating train services, which are recovered through the general charging principle (i.e. in accordance with paragraph 1(4) of Schedule 3 to the Rail Regulations 2005); and
- common costs, which are recovered on the basis of the long term costs of the operational phase of the HS1 project under the exception to the general charging principle specified in paragraph 3 of Schedule 3 to the Rail Regulations 2005 (the "Second Exception").

In order to do this:

- Directly incurred costs have been split into "variable" and "avoidable" costs. Variable costs are those costs which vary with the number and type of trains running on the line.
- To determine avoidable costs, train services have been grouped into a number of different "increments", i.e. "domestic passenger services", "international passenger services" and "freight services".
- Consideration has been given to what OMRC would not be incurred, or would be "avoidable", in the absence of each of these increments. In determining such avoidable costs, account has been taken of the cost of mothballing elements of HS1 required only by that increment, with such mothballing costs being treated as common costs. To be specific:
 - Those costs which would be avoidable if international passenger services were not to run on HS1 have been defined as being those costs which are directly incurred by international passenger services.
 - Those costs which would be avoidable if domestic passenger services were not to run on HS1 have been defined as being those costs which are directly incurred by domestic passenger services.
 - Those costs which would be avoidable if freight services were not to run on HS1 have been defined as being those costs which are directly incurred by freight services.

All such costs are recovered under the general charging principle.

- Those costs which remain after the process of defining increments and analysing avoidable costs (as outlined above) are treated as common costs. These costs are apportioned between international and domestic passenger train services on the following basis:
 - Common costs which increase as the length of the line increases (e.g. signalling maintenance) are apportioned between international and

domestic passenger train services on the basis of expected train minutes spent on those sections of HS1 used by both international and domestic train services (ignoring stopping time at stations). This is to prevent operators being unfairly penalised for time spent on sections of HS1 the cost of which will, for the most part, be recovered from such operators as costs directly incurred by them (i.e. under the general charging principle);

- Common costs which do not increase with the length of the line (e.g. office administration costs) are apportioned between international and domestic passenger train services on the basis of expected train minutes spent on the whole length of HS1 (ignoring stopping time at stations).

Common costs are recovered from passenger TOCs on the basis of the long-term costs of the operational phase of HS1 project under the Second Exception. Conventional freight services are not currently charged for common costs.

2. Second, a distinction has been drawn between:

- those operations, maintenance and renewal costs which are treated as being “at risk” for the Infrastructure Manager, in that charges for such costs are determined at the outset of each price control period (initially the period to 31 March 2015 and thereafter each period of 5 successive years) so that the Infrastructure Manager bears the risk that outturn costs exceed assumed costs; and
- those operations, maintenance and renewal costs which are passed through to passenger TOCs “at cost” (subject to review by the ORR to confirm that they have been efficiently incurred) because they are particularly difficult to control and subject to significant potential variation. For the first control period they include insurance, rates and non-traction, non-station electricity and amounts payable in respect of renewals under the Infrastructure Manager’s contract with UKPN (in order to cover renewal of the electricity sub-stations).

Dealing with these in turn:

- With respect to the initial price control period (i.e. the period ending 31 March 2015), an analysis has been undertaken, in conjunction with input from NR(CTRL), to ascertain what level of “at risk” costs relating to operation, maintenance and renewal it would be reasonable for the Infrastructure Manager to expect efficiently to incur. This analysis and input from NR (CTRL) generated a profile of OMRC which declines in real terms over time, as a result of the impact of various efficiency initiatives. However, in order to make it easier for TOCs to plan their activities and to ensure that passenger TOCs have a clearer relationship between their own costs and likely changes to passenger fares, this declining profile of costs has been converted into a flat profile of costs with exactly the same present value. This flat profile is apportioned between domestic and international passenger services in the manner outlined above (i.e. distinguishing between directly incurred costs and common costs). These costs will be indexed annually at a rate of RPI+1.1% to ensure that the Infrastructure Manager is not adversely affected by price inflation in the sector which has traditionally been, and expected to be, higher than in the economy as a whole.
- Operations, maintenance and renewal costs which are passed through to passenger TOCs “at cost” and can be reviewed by the ORR to ensure that such

costs have been efficiently incurred. No indexing of these costs is therefore necessary.

3. Third, once these overall levels of OMRC for domestic and international passenger trains have been calculated, they are converted into actual charges on the basis of timetabled train minutes. Conventional freight services are charged only directly incurred costs on a train-km basis.

The following table provides indicative figures of OMRC per passenger train service (figures are quoted in February 2009 values)

Indexation Method		International passenger services (£ per train service) (Class 373)	Domestic passenger service to Ashford International Station (£ per train service) (Class 395)	Domestic passenger services to Ebbsfleet International Station (£ per train service) (Class 395)
	<i>Assumed Journey Time</i>	<i>31 mins</i>	<i>31 mins</i>	<i>14 mins</i>
	<u>Indicative OMRC</u>			
RPI + 1.1%	Directly Incurred Costs (Variable)	221.96	76.57	34.58
RPI +1.1%	Directly Incurred Costs (Avoidable)	396.80	105.71	47.74
RPI +1.1%	Long Term Project Costs: "at risk" element	604.50	702.15	317.10
N/A	Long Term Project Costs: "at cost" element	269.08	269.08	121.52
	<u>TOTAL Indicative OMRC</u>	1,492.24	1,153.51	520.94

PERFORMANCE REGIME

As required by the Rail Regulations 2005, Framework Track Access Agreements and Track Access Agreements (as applicable) between the Infrastructure Manager and the TOCs will include a performance regime designed to encourage all parties to minimise disruption and improve the performance of HS1.

The performance regime has been designed to provide incentives to encourage all parties both to minimise the frequency of performance-disrupting incidents and to contain their impact when they occur.

Measuring delays/cancellations

Performance will be measured using the TRUST monitoring system, with incidents of delay or cancellation allocated both to cause codes and responsible manager codes in accordance with the Delay Attribution Guide.

The regime will not normally take account of delays/cancellations arising off HS1. Hence, late presentation of trains onto HS1 will not be attributed against either the TOC or the Infrastructure Manager at the monitoring point at which a train enters HS1. The exception to this is where a delay or cancellation is directly caused by HS1 at a location proximate to the entry point on to HS1. Subsequent delays/cancellations to a train as a consequence of the late presentation will be attributed to the TOC whose train is presented late (subject to intervening or contributing incidents, which will be attributed in accordance with their on-HS1 root cause), whatever the primary underlying cause of the late presentation. Impacts of that train on other trains will be attributed in the same way.

Third party causes arising off HS1 and affecting network performance will be excluded (e.g. fires on adjoining property affecting operations) for both the Infrastructure Manager and the TOC.

Infrastructure Manager caused delays/cancellations – Performance Payments by Infrastructure Manager (HS1 Ltd Performance Sum)

The Infrastructure Manager will make payments to a TOC in the event that the Infrastructure Manager attributed delays/cancellations (excluding TOC-on-TOC delays/cancellations) experienced by the TOC exceeds (i.e. is worse than) a defined threshold ("Poor Performance Threshold"). Payments will be equal to the product of (a) the difference between the average minutes delay and cancellation minutes per train which are attributable to the Infrastructure Manager in a given 28 day period and the Poor Performance Threshold, (b) a payment rate specific to the type of traffic affected and (c) the number of trains scheduled to be operated by the TOC during the period. The threshold will be defined to allow for an expected level of variability period-to-period (for example, it could be set according to the estimated standard deviation of delays over a year).

Good network performance – Bonus Payments to the Infrastructure Manager (HS1 Ltd Performance Bonus)

The Infrastructure Manager will be entitled to a bonus payment from a TOC in the event that the sum of the Infrastructure Manager caused delay minutes and cancellation minutes per train and TOC-on-TOC delay minutes and cancellation minutes per train experienced

by that TOC is less (i.e. better) than a defined threshold ("Good Performance Threshold"). Bonus payments will be based on the difference between actual delays/cancellations per train and a Good Performance Threshold, but will be calculated at a reduced payment rate ("Bonus Payment Rate"). The Bonus Payment Rate will be 25% of the payment rate referred to above. This mechanism will provide a positive incentive for the Infrastructure Manager to manage disruption effectively. The Infrastructure Manager will not be entitled to receive a performance bonus from a TOC in the event that its performance sum payment to that TOC exceeds one thirteenth of the annual Performance Cap (as described below) in any period.

TOC caused delays/cancellations – Performance Payments by the TOC (Train Operator Performance Sum)

Each TOC will be obliged to make a performance payment to the Infrastructure Manager in respect of the TOC-on-TOC delays/cancellations which it causes to another TOC (the "Affected TOC") subject to overall performance experienced by that TOC (i.e. both the Infrastructure Manager caused delays/cancellations and TOC-on-TOC delays/cancellations) being worse than a defined TOC on TOC Receipt Benchmark. Payments in respect of each Affected TOC will be equal to the product of (a) the number of minutes delay and cancellation minutes per train which are attributable to the TOC in a given 28 day period and (b) a payment rate specific to the type of traffic affected.

If there is only one Affected TOC then this payment will be paid by the Infrastructure Manager to that TOC. Where there is more than one Affected TOC, the payment will be split between those TOCs in proportion to their payment rate multiplied by the relevant TOC-on-TOC minutes delay and cancellation minutes which they have experienced. The payments made by the Infrastructure Manager to the Affected TOCs shall not exceed the performance payments it receives from TOCs responsible for the TOC-on-TOC delay/cancellations.

Payment rates

Payment rates will be standardised for particular traffic types. They will not represent the so-called marginal revenue effect (the impact on revenue of a change in performance at the margin).

Caps on liability

Payment by the Infrastructure Manager and the TOC in respect of their poor performance will be subject to a cap (the "Performance Cap") as follows:

- (a) in relation to the passenger operators in respect of the relevant year expiring on 31 March 2012 and each subsequent relevant year, 3% of an amount equal to the aggregate of total IRC and OMRC payable by such TOC in the relevant year, subject to a minimum of £500,000 (indexed); and
- (b) in relation to freight operators:
 - (i) in respect of the relevant year expiring 31 March 2012, 1.5% of an amount equal to the total OMRC payable by such TOC in the relevant year, subject to a minimum of £250,000 (indexed)

(ii) in respect of the relevant year expiring on 31 March 2013, 1.5% of an amount equal to the total OMRC payable by such TOC in the relevant year, subject to a minimum of £250,000 (indexed); and

(iii) in respect of the relevant year expiring on 31 March 2014 and each subsequent relevant year, 3% of an amount equal to the total OMRC payable by such TOC in the relevant year, subject to a minimum of £500,000 (indexed).

In each year there will also be a quarterly cap (which will be based on the annual cap). Any unused element of the quarterly cap can be rolled forward within any year.

The Infrastructure Manager bonus payments will also be subject to an annual cap equal to 10% of the Performance Cap and a quarterly cap operating on the same basis as that applicable to Infrastructure Manager and TOC payments.

Performance improvement plans

If either party's performance payment exceeds one thirteenth of the annual cap in any 3 out of 13 consecutive 28 day periods, or if its performance fails to satisfy certain other criteria in any 8 out of 13 consecutive 28 day periods, it will be required to submit a performance improvement plan.

Recalibration and review

The performance regime will operate by reference to a number of parameters which are specified in the relevant Framework Track Access Agreement or the Track Access Agreement (as applicable). The parameters specified will reflect a reasonable expectation of each party's measured performance over a defined period. Ultimately, this will be determined on the basis of actual performance data but initial parameters have been set on the basis of a modelling exercise. These will apply until the regime has been recalibrated in accordance with the HS1 Passenger Access Terms. The HS1 Passenger Access Terms provides that the parameters will be recalibrated no later than 30 November 2011 by reference to performance on HS1 during the 13 periods immediately preceding 1 July 2011. The Infrastructure Manager is currently undertaking an exercise with the passenger operators to recalibrate the parameters. Although there is an equivalent provision in the HS1 Freight Access Terms, the Infrastructure Manager does not intend to carry out an equivalent recalibration exercise at this stage because freight operations have only recently been introduced on HS1 and so there is insufficient historical data to recalibrate the performance values.

In addition to this initial review, the performance regime can be reviewed after a material change or if another TOC's performance regime is revised. A material change for this purpose would include a physical modification to HS1, an increase or decrease of more than 4% in the number of train movements (excluding any changes as a result of Olympic Games 2012) or a significant change in the performance of the rolling stock operated by the TOC.

GLOSSARY OF TERMS

Please note that certain definitions in this Appendix 3 may need to be amended as a consequence of the proposed changes to Part D of the HS1 Network Code as described in Section 2.5.1.1.

ACC	Ashford Control Centre
Access Agreement	Framework Track Access Agreement, Track Access Agreement or Station Access Agreement (as applicable)
AIC	Additional Inspection Charge
Applicant	Any person that wants to apply for a train path including TOCs, shippers, freight forwarding agents and combined transport operators applying on behalf of a TOC
APC Magnets	Automatic Power Control Magnets
ATCS	Automatic Train Control System
AWS	Automatic Warning System
Base Timetable	In respect of any Timetable Period, the timetable issued by the Infrastructure Manager in accordance with Condition D2.3 of the HS1 Network Code showing those Train Slots which the Infrastructure Manager expects to include in the Working Timetable applicable to that Timetable Period
Bid	Any notification made by any Applicant for a Train Slot as provided under the HS1 Network Code
Competent authority restriction of use	Any restriction of use taken by the Infrastructure Manager pursuant to a direction or an agreement with any competent authority
Concession Agreement	The agreement made between the Secretary of State and the Infrastructure Manager granting the concession to the Infrastructure Manager for the operation and financing of HS1 and the repair, maintenance and replacement of HS1
DAG	Delay Attribution Guide
DBS	DB Schenker Rail (UK) Limited
Disruptive Event	Any event or circumstance which materially prevents or materially disrupts the operation of trains on any part of HS1 in accordance with the relevant Working Timetable

Drafting Period	A period of 16 weeks during which the Infrastructure Manager drafts the First Working Timetable as provided in the HS1 Network Code
EIL	Eurostar International Limited
ERTMS	European Rail Traffic Management System
ETCS	European Train Control System
Eurotunnel (ET)	The infrastructure manager of the Channel Tunnel
First Working Timetable	The first version of the Working Timetable which is formally offered to Applicants 22 weeks prior to coming into effect, and after the resolution of any disputes
Flexing Right	The right of the Infrastructure Manager to vary any Bid or Train Slots as provided under the HS1 Network Code
Framework Track Access Agreement	Agreement between the Infrastructure Manager and an Applicant for access onto HS1 for a duration of more than one Timetable Period
Franchised TOC	A TOC providing domestic passenger train services on HS1 pursuant to a franchise agreement with the Secretary of State
Freight OMRC	OMRC to be paid by a freight TOC for operating freight train services on HS1
GSM-R	Global system for mobile telecommunications - railway
HS1 CAHA	CTRL Claims Allocation & Handling Agreement as updated
HS1 Codes	The HS1 Network Code, the HS1 Emergency Access Code, the HS1 Performance Data Accuracy Code and the HS1 Systems Code
HS1 Disputes Resolution Agreement	CTRL Disputes Resolution Agreement as updated
HS1	High Speed 1 (formerly known as the CTRL) rail infrastructure or the Rail Link Facility
HS1 Network Code	The HS1 Network Code as updated
HS1 Rule Book	The CTRL Rule Book as updated
HS1 Sectional Appendix	The CTRL Sectional Appendix as updated
HS1 Standards	The CTRL Standards as updated
IRC	Investment Recovery Charge

Infrastructure Manager	HS1 Limited
KVB	Controle de vitesse par balises – Speed supervision by beacons
NR(CTRL)	Network Rail (CTRL) Limited, a subsidiary of NRIL
NRIL	Network Rail Infrastructure Limited – also referred to as Network Rail
NR Network	The UK domestic railway operated by NRIL
OMRC	Operations, Maintenance and Renewal Charge
ORR	Office of Rail Regulation
OSS	One Stop Shop
Possession	Restriction of use of railway infrastructure assets
Principal Change Date	The date normally falling on the Sunday next following the second Saturday in December in any calendar year
Rail Regulations 2005	Railways Infrastructure (Access & Management) Regulations 2005 as amended by the Railways Infrastructure (Access and Management) (Amendment) Regulations 2009
Relevant Year	A year commencing at 0000 hours on 1 April and ending at 2359 hours on the following 31 March
Revised Bid	Any Spot Bid seeking to revise a Train Slot scheduled in the relevant Working Timetable
RNE	RailNetEurope, an association of European infrastructure managers
ROGS Regulations	The Railways and Other Guided Transport (Safety) Regulations 2006
Rolling Stock	Wheeled vehicles capable of movement on a railway, whether self-propelled or not
Rules of the Plan	The Rules of the Plan containing operating procedures and a procedure to enable amendments to be made to the Rules of the Route other than through the annual consultation process set out in Condition D3 of Part D of the HS1 Network Code
Rules of the Route	The Rules of the Route set out the possessions requirements of the Infrastructure Manager in order to carry out inspections, maintenance, repair, renewal and enhancement works on HS1

Secretary of State	Secretary of State for Transport
Section 1	The portion of HS1 that runs between Fawkham Junction/Southfleet Junction and Cheriton (Channel Tunnel Boundary)
Section 2	The portion of HS1 that runs between St Pancras International Station and Southfleet Junction
SNRP	Statement of National Regulatory Provisions
Spot Bid	Any Bid made to change, delete or add to the Train Slots shown in the Working Timetable
Station	St Pancras International Station, Stratford International Station, Ebbsfleet International Station and Ashford International Station (as applicable)
Station Access Agreement	Agreement between the Station Facility Owner and an Applicant for access to the relevant Station
Station Access Conditions	The HS1 Station Access Conditions (Edition Date: November 2010) and the annexes in relation to the relevant Station as each are modified in respect of the relevant Station from time to time
Station Facility Owner	HS1 Limited
STM	Special Transmissions Module
Subsidiary Change Date	The date normally falling on the Sunday next following the second Saturday in May in any calendar year
Supplemental Period	A period of 22 weeks commencing after the issue of a First Working Timetable in accordance with the HS1 Network Code
Temple Mills Depot	The light maintenance depot located at Temple Mills, north of Stratford, London
Timetable Period	The period of operation of the relevant Working Timetable
Timetable Week	In respect of a Timetable Period, any week (or, in the case of the first and last such week of such period, part thereof) occurring during that period and commencing at 0001 hours on any Saturday and ending at 2400 hours on the next following Friday
Track Access Agreement	Agreement between the Infrastructure Manager and an Applicant for access on to HS1 for duration of up to a single Timetable Period

Train Slot	A train movement or a series of train movements, identified by arrival and departure times at each of the start, intermediate (where appropriate) and end points of each train movement
TOC	A Train Operating Company, being any public or private undertaking, licensed according (or exempt from licensing) to applicable European Community legislation, the principal business of which is to provide services for the transport of goods and/or passengers by rail with a requirement that the undertaking must ensure traction; this also includes undertakings which provide traction only
TPWS	Train Protection and Warning System
TVM 430	HS1 signalling system
UIC	Union Internationale des Chemins de fer
UKPN	UK Power Networks Services (Contracting) Limited
VHME	Vehicle Health Monitoring Equipment
VSTP	Very Short Term Train Planning
Working Timetable	The timetable for the train services on HS1 established in accordance with Part D of the HS1 Network Code for the relevant Timetable Period

ROUTE MAP OF HS1

