



02 August 2017

## **National Implementation Plan (NIP) for Ireland for Technical Specification for Interoperability Operation and Traffic Management (TSI OPE)**

### **Introduction**

The attached table outlines the first National Implementation Plan (NIP) for Ireland in regard to the Technical Specification for Interoperability relating to the Operation and Traffic Management subsystem of the rail system in the European Union (TSI OPE). This plan was drawn up by the Commission for Railway Regulation with the assistance of the safety departments of Iarnród Éireann-IM which is the infrastructure manager for the national network, and Iarnród Éireann-RU which is the principal railway undertaking established in the State. Reference is also made to the Safety Management System (SMS) of BBRI, the principal infrastructure maintenance contractor on the national network.

This National Implementation Plan takes account of the implementation principles and guidelines referred to in clauses 7.1 and 7.2 of the Annex I to Commission Regulation (EU) on TSI OPE 2015/995 of 8 June 2015.

Ireland recognises that this NIP represents an interim phase supporting migration to the target system, and that existing systems and processes should be adapted to comply with the requirements of the TSI as the opportunity arises.

The elements addressed in this NIP are to be implemented through the safety management systems of the infrastructure manager and the railway undertakings operating on the national network. For some of these elements, a gap analysis will clarify what needs to be done. Progress will be assessed after one year and the NIP implementation targets will be reviewed accordingly.

Implementation will take into account of operating and safety elements, including human factors issues, associated with the operation of each line. Depending on feasibility, the scope of implementation of particular elements may be restricted to certain trains or certain lines. Full implementation of this TSI cannot be complete until the hardware that is to be operated, including infrastructure, energy, control-command and signalling, and rolling stock, has been harmonised in accordance with the target system.

The clauses highlighted in yellow are the new requirements set out in the TSI OPE 2015/995 for which the national implementation plans shall be notified to the Commission by 1 July 2017 at the latest. All other requirements relate to Commission Decision 2012/757/EU on TSI OPE for which the national implementation plans should have been notified to the Commission by 31 December 2014.

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
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4.2.1.2	Documentation for drivers	01/07/2019	Rule Book, Working Timetable (WTT), General Appendix, Weekly Circular (WC), Local Instructions, Shed notices (e.g. Emergency or Temporary Speed Restriction, SPAD Notices), Operating Notices (e.g. Low Rail Adhesion notice), Drivers' manuals	IM-SMS-001 4.4.12, 4.4.14, 4.4.15 RU-SMS-001 4.4.1.4, 6.7.5.1, 6.7.7.1	a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/>	No	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.1.2.1	Drivers rule book	01/07/2019	Driver's Rule Book compliant with this clause and appendices A,B & C will be an outcome to be achieved by the target date Appendix C clause 8 - Book of Forms to be collated.	IM-SMS-001 3.4.1 RU-SMS-001 4.4.1.4, 6.7.4.1	a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/>	No	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.1.2.2	Drivers route book	01/07/2019	IM Driver's route Book covering all routes operated upon, compliant with this clause and containing information in appendix D will be an outcome to be achieved by the target date		a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/>	No	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.1.2.3	Timetables	01/07/2019	WTT, WC		a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	No	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/>

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					b) Yes <input type="checkbox"/> No <input type="checkbox"/>	Other <input type="checkbox"/> please state:
4.2.1.2.4	Rolling stock	01/07/2019	Rule Book Section M General Appendix Section B		c) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> d) Yes <input type="checkbox"/> No <input type="checkbox"/>	No RU <input checked="" type="checkbox"/> IM <input type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.1.3	Documentation for railway undertaking staff other than drivers	01/07/2019	WTT, WC, Rule Book, General Appendix Section B		c) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> d) Yes <input type="checkbox"/> No <input type="checkbox"/>	No RU <input checked="" type="checkbox"/> IM <input type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.1.4	Documentation for infrastructure managers staff authorising train movements	01/07/2019	Appendix C clause 8 - Book of Forms to be collated.		c) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> d) Yes <input type="checkbox"/> No <input type="checkbox"/>	It is a common operational principle/rule RU <input type="checkbox"/> IM <input checked="" type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.1.5	Safety related communication between train crew, other railway undertaking staff and staff	01/07/2018	English is the operating language (see Appendix J Glossary), <i>This will be published in revised Network statement</i>		c) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> d) Yes <input type="checkbox"/> No <input type="checkbox"/>	It is a common operational principle/rule RU <input type="checkbox"/> IM <input checked="" type="checkbox"/> Other <input type="checkbox"/> please state:

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	authorising train movements					
4.2.2.1.1	Train visibility – general requirement	01/07/2019	Rule Book		a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/>	It is a common operational principle/rule  RU <input checked="" type="checkbox"/> IM <input type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.2.1.2	Front end lights	01/07/2017	Explanation: This requirement applies to new, renewed and upgraded RST in accordance with TSI LOC-PAS.  None of the RU fleets currently meet this requirement.  Some fleets (201, 071, MKIV, DD Control Car & 22000) have the required isosceles triangle arrangement but the light intensity is not compliant. Other fleets (2800, 2600, 8100, 8500, 29000, and 2700) do not have the triangular arrangement.		a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/>	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:

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			Rule Book requires headlamps to be displayed at all times.				
4.2.2.1.3	Rear end lights	23/06/2017	All RU fleets are required to display rear end lights.  As per Rule book  MS-IE to notify this requirement as a national rule		a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/> Justification: NSA to notify this requirement as a national rule	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/> Other <input checked="" type="checkbox"/> , please state: NSA-IE
4.2.2.1. 3.1	Passenger trains	23/06/2017	All RU fleets are required to display rear end lights.  As per Rule book  MS-IE to notify this requirement as a national rule		a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/> Justification: NSA to notify this requirement as a national rule	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/> Other <input checked="" type="checkbox"/> , please state: NSA-IE
4.2.2.1.3.2	Freight trains in international traffic	23/06/2017	All RU fleets are required to display rear end lights.		a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/>

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			As per Rule book  MS-IE to notify this requirement as a national rule		NSA to notify this requirement as a national rule	principle to be developed in appendix B: <input type="checkbox"/>  Deficiency: <input type="checkbox"/> Justification:	Other <input checked="" type="checkbox"/> , please state: NSA-IE
4.2.2.1.3.3	Freight trains not crossing a border between Member States	23/06/2017	All RU fleets are required to display rear end lights.  As per Rule book  MS-IE to notify this requirement as a national rule		a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/> Justification: NSA to notify this requirement as a national rule	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/>  Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/> Other <input checked="" type="checkbox"/> , please state: NSA-IE
4.2.2.2.1	Train audibility – general requirement	23/06/2017	All RU fleets are required to have audible Horns fitted and operational.  As per IÉ Rulebook (H37)		a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/>	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/>  Deficiency: <input type="checkbox"/> Justification: No	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/> Other <input type="checkbox"/> please state:

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4.2.2.2.2	Train audibility control	23/06/2017	All RU fleets require driving controls to be within driver reach.		a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/> Justification: No national rule. Governed by EN standard.	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification: No	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.2.3	Vehicle identification and Appendix H	31/12/2017	All RU fleets are registered on the NVR (they have an assigned unique identification number) and are required to displayed along the longitude as per CME-TMS-304, which references the OPE TSI.  IM is to register as Vehicle Keeper to complete the process of registering the OTM vehicles on the NVR.	CME-TMS-304	a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/>	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.2.4.1	Safety of load	23/06/2017	Rule Book, General Appendix Section C & D		a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/>	Specific case: <input type="checkbox"/> Common operational rule/principle to be	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/> Other <input type="checkbox"/> please state:

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					developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	
4.2.2.4.2	Safety of passengers	23/06/2017	Rule Book section H	a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/>	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.2.5	Train composition	01/07/2019	IM and RU to provide a compliance check sheet and note compliance with Appendix D (Route Book)	a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/>	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/> Other <input type="checkbox"/> please state:



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4.2.2.6.1	Minimum requirements of the braking system	23/06/2017	All fleets comply.  There is a national rule for passenger trains, i.e., the Regulation of Railways Act 1889, sections 1 and 2.  The Regulation of Railways Act 1889, in sections 1 and 2, requires a continuous instantaneous self-applying durable and easily maintained brake to be operable by train drivers and guards and be in daily use on all passenger trains.		a) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> b) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Justification:  This rule applies to all passenger railways, including those outside scope of application of the EU railway directives. It does not conflict with the TSIs nor restrict access to the market.	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.2.6.2	Braking performance and maximum speed allowed	23/06/2017	WTT sets down maximum speed for various trains,  General Appendix B.1 16.6.2 which refers to application of Rule Book H 3.6.20 by Signalman in event of partial isolation of service or parking brake		a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/> Justification: Interface management matter between IM and RU SMS	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/>	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/> Other <input type="checkbox"/> please state:

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			Route Information Book, I-SIG-2146, I-SIG-2147  Rule Book section H 3.6.1-2 also covers situation of train being endangered or driver inability to control train speed.			Deficiency: <input type="checkbox"/> Justification:	
4.2.2.7.1a	Ensuring the train is in running order – general requirements	23/06/2017	The maintenance staff are required to present the train to Operations with all safety related on board equipment fully functional (Rule Book Section H 2.4).  In addition to maintenance responsibilities the driver is also required, prior to departure, to check and ensure all safety related on board equipment is fully functional (Rule Book Section H 3.3).	CME-TMS-001, 002 and CME-QMS-006, CME-TMS-316, BBRI_SMS-Element B	a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification: No	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.2.7.1b	Ensuring the train is in	01/07/2018	The RU should inform the IM of any change to the characteristics of		a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Specific case: <input type="checkbox"/>	RU <input checked="" type="checkbox"/>

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	running order – general requirements		the train that might affect its operation or the ability of the infrastructure to accommodate it in its allocated path (RU to check if Rule Book need updating). [Also see §4.2.3.3.2]		b) Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification: No	IM <input type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.2.7.1c	Ensuring the train is in running order – general requirements	01/07/2018	Define and keep up to date conditions and procedures for train running in degraded mode		a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification: No	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.2.7.2	Data required	01/07/2019	The following data aspects need to be addressed in data provided: <ul style="list-style-type: none"> <li>Identity of RU responsible for train</li> <li>Actual length of trains information</li> </ul>		a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/>	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/> Other <input type="checkbox"/> please state:

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			<ul style="list-style-type: none"> <li>Carriage of Dangerous Goods information</li> </ul>			Deficiency: <input type="checkbox"/> Justification:	
4.2.2.8	Requirements for signal and lineside marker signalling	23/06/2017	Signals and signage are specified in standards and sighted to as to provide maximum visibility to the driver	I-SIG-2041-2043, I-SIG-2000-2011	a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
4.2.2.9	Driver vigilance	01/07/2018	<p>Driver vigilance is present on all rolling stock motive units, although the time ranges for 'lack of driver's activity' on existing RST are not consistent with the current TSI LOC PAS.</p> <p>RUs should check the feasibility of ensuring conformity of existing fleet with –</p> <p>a) TSI LOC PAS; b) UIC641.</p>		a) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> b) Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input checked="" type="checkbox"/> Justification: Deficiency may be resolved very easily by	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/>  Other <input type="checkbox"/> please state:

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					changing 'react' to 'act', i.e., text should read as follows: ' <u>driver does not act...</u> within the <i>time range</i> specified in the rolling stock TSIs'. [Note that §4.2.9.3.1 of TSI LOC PAS specifies a ' <u>time range</u> for a <u>lack of driver's activity</u> '].  The UIC641 option to use <i>inactivity distance</i> should be considered for TSI LOC PAS.	
4.2.3.1	Train planning	01/07/2018	Explanation: IM to review current process to check compliance (Data for Path Allocation)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>

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						principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	Other <input type="checkbox"/> please state:
4.2.3.2	Identification of trains	01/07/2024	Train ID per WTT, weekly circulars and special notices by using a four character train ID. The ID is comprised of one leading alphabetic and three following numeric digits. Running no. and train ID are the same.  Ref Irish specific case 7.3.2.2 (type T2) which expires in 2024		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input checked="" type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification: Specific case in TSI for alphanumeric code	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.3.2.1	Format of train running number	01/07/2024	Train ID per WTT, weekly circulars and special notices by using a four character id. The ID is comprised of one leading alphabetic and three following numeric digits. AB confirmed that running no. and train ID are the same.		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input checked="" type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/>	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/> Other <input type="checkbox"/> please state:

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			Ref Irish specific case 7.3.2.2 (type T2) which expires in 2024			Deficiency: <input type="checkbox"/> Justification: Specific case in TSI for alphanumeric code	
4.2.3.3.1	Checks and tests before departure	23/06/2017	Rule Book section H, General Appendix B.1 & B.2, Driving Standards and Drivers Handbook. Each OTM also undergoes a pre departure inspection prior to entering service in accordance with BBRI SMS.		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.3.3.2	Informing the infrastructure manager of the trains operational status	01/07/2018	RU to review current process to check compliance - <ul style="list-style-type: none"> <li>informing IM when train is ready to access the network, and</li> <li>Informing IM of any anomaly affecting the running of the train.</li> </ul> [Also see §4.2.2.7.1]		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/> Other <input type="checkbox"/> please state:

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

4.2.3.4.1	Traffic management – general requirements	23/06/2017	This is managed by the Traffic Regulator. Delay causation is recorded. The IM informs the RU by text message of delays	IMO-SMS-043	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.3.4.2.1	Train reporting – data required for train position reporting	23/06/2017	TOPS (Train operating performance system) covering network, except for Banteer-Tralee line and Limerick Junction-Waterford line  CTC message alert system for train delays		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.3.4.2.2	Predicted hand over time	23/06/2017	A documented protocol is in place	Cross border communications protocol	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/> Other <input type="checkbox"/> please state:



TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

						developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	
4.2.3.4.3	Dangerous goods	23/06/2017	General Appendix D, Train manifest project, TREM card		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/> Other <input type="checkbox"/> please state:
4.2.3.4.4	Operational quality	23/06/2017	The operation is monitored and performance is reported each period TOPS. Unfavourable trends are investigated and acted upon. Interface meetings are held with other RU/IM. Disruption to services are investigated and involved all parties concerned. IMO Train performance manager, weekly review, e.g. LRA, documentation & Internal audits	IM-SMS-007, RU-SMS-007, CME-Te.Br-022-005 CME Technical Briefing - Service affecting failure	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/> Other <input type="checkbox"/> please state:

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

4.2.3.5	Data recording	01/07/2018	IM & RU to review current process to check degree of compliance (including a means to register the driver's identity on-board)		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
4.2.3.5.1	Recording of supervision data outside the train	23/06/2017	Explanation: all failures are recorded in the national fault management system (NMC). Acoustic Bearing monitoring and Hot axle box detectors (HBDs) in operation. Train radio conversations are recorded.		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
4.2.3.5.2	Recording of supervision data on-board the train	01/07/2017	These criteria must be fulfilled for a new on-board supervision data device installed as part of new RST, or as part of existing RST renewed and upgraded in accordance with TSI LOC PAS, or as part of a		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/>	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/>  Other <input type="checkbox"/> please state:

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

			significant upgrade to the supervision data recording function of an existing driving cab.			Deficiency: <input type="checkbox"/> Justification:	
4.2.3.6.1	Degraded operation – advice to other users	23/06/2017	Explanation: mutual arrangements are defined in the rule book		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
4.2.3.6.2	Degraded operation – advice to train drivers	23/06/2017	Explanation: this is defined in the rule book		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

4.2.3.6.3	Degraded operation – contingency arrangements	23/06/2017	Explanation: this is defined in the rule book. Emergency arrangement are defined and communicated to all. Annual workshop with RU's and IM's. Staff details are maintained by CTC in case they need to be contacted in the event of an emergency. IM/RU-SMS-012 and IM-SMS-012-OP1-Emergency Response hand book		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
4.2.3.7	Managing an emergency situation	23/06/2017	Explanation: This is defined in the rule book. Emergency arrangements are defined and communicated to all. Annual workshop with RU's and IM's. Staff details are maintained by CTC in case they need to be contacted in the event of an emergency.  IM/RU-SMS-012 and IM-SMS-012-OP1-Emergency Response hand book		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:  Link to Major Emergency Plans established by Government Decision	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

4.2.3.8	Aid to train crew in the event of an incident or of a major rolling stock malfunction	23/06/2017	Rule Book and Train Evacuation booklet.  For BBRI it is in place in accordance with the BBRI SMS. Outlined in Element Q and R.		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/>  Other <input type="checkbox"/> please state:
4.6.1	Professional competence for staff undertaking safety critical tasks associated with accompanying a train	01/07/2018	Gap analysis between appendices F & G and SMS to be conducted to check compliance		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
4.6.2.1	Language competence - principles	01/07/2018	Gap analysis of Appendix C and current processes to be conducted to check compliance		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/>	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

					Deficiency: <input type="checkbox"/> Justification:	
4.6.2.2	Language competence – level of knowledge and appendix E	01/07/2018.	Explanation: All communication is conducted through English. Training is provide and communication is assessed and monitored. Gap analysis of Appendix C and current processes to be conducted to check compliance	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input type="checkbox"/>  Other <input type="checkbox"/> please state:
4.6.3.1	Initial and ongoing assessment of staff – basic elements	23/06/2017	Explanation: Competence assessment is defined in IM/RU SMS 004. For BBRI it is in place in accordance with the BBRI SMS - outlined in Element N of the BBRI SMS Manual.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
4.6.3.2	Analysis and update of training needs	23/06/2017	Training needs analysis are submitted as part of the certification process for the SMS.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/>

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

						principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	Other <input type="checkbox"/> please state:
4.6.4	Auxiliary staff	23/07/2018	RU to review current process to check compliance (Is there an Induction)		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/>  Other <input type="checkbox"/> please state:
4.7.1	Health and safety conditions – introduction	01/07/2020	For staff accompanying a train, staff despatching trains, and staff authorising train movements Compliance with this requirement is to be reviewed and an Action Plan is to be implemented.  In place for BBRI in their SMS		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

4.7.2.1	Medical examinations and psychological assessments – before appointment	01/07/2020	Compliance with this requirement to be reviewed and an Action Plan to be implemented.		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification: Partial application- IM and RUs are also required under national law to have systems in place to check staff for drugs and alcohol.	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
4.7.2.2.1	After appointment – frequency of periodic medical examinations	01/07/2020	Compliance with this requirement to be reviewed and an Action Plan to be implemented In place for BBRI in their SMS		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
4.7.2.2.2	Minimum content of	01/07/2020	Compliance with this requirement to be reviewed and an Action Plan to be implemented		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	Specific case: <input type="checkbox"/>	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/>



TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

	periodic medical examination		In place for BBRI in their SMS		Justification:	Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	Other <input type="checkbox"/> please state:
4.7.2.2.3	Additional medical examinations and/or psychological assessments	01/07/2020	Compliance with this requirement to be reviewed and an Action Plan to be implemented. In place for BBRI in their SMS		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification: Partial application- IM and RUs are also required under national law to have systems in place to check staff for drugs and alcohol.	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
4.7.3.1	Medical requirements – general requirements	01/07/2020	Compliance with this requirement to be reviewed and an Action Plan to be implemented In place for BBRI in their SMS		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

						developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	
4.7.3.2	Vision requirements	01/07/2020	Compliance with this requirement to be reviewed and an Action Plan to be implemented In place for BBRI in their SMS		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
4.7.3.3	Hearing requirements	01/07/2020	Compliance with this requirement to be reviewed and an Action Plan to be implemented In place for BBRI in their SMS		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

4.8	Registers of infrastructure and vehicles	01/07/2019	IM to register as a Vehicle Keeper to complete the process of registering the OTM vehicles on the NVR. RINF book being developed by CCE Technical Dept.		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
4.8.1	Infrastructure	01/07/2019	Route book being developed for all routes		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
4.8.2	Rolling stock	01/07/2018	IM review current process to check compliance		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be	RU <input checked="" type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

						developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	
Appendix A	ERTMS/ETCS operating rules and principles – version 4	Click here to enter a date.	Explanation: Not applicable at present		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix B.1	Sanding	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance of network rules with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix B.2	Departure of a train	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance of network rules with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

						Other <input type="checkbox"/> please state:
Appendix B.3	No authorisation of train movement	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance of network rules with this appendix	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix B.4	Complete failure of front end lights	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance of network rules with this appendix	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix B.5	Complete failure of rear end signal	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance of network rules with this appendix	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix B.6	Failure of the audible warning device of a train	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance of network rules with this appendix	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

						Other <input type="checkbox"/> please state:
Appendix B.7	Failure of a level crossing	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance of network rules with this appendix	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix B.8	Failure of radio communication	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance of network rules with this appendix	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix B.9	Running on sight	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance of network rules with this appendix	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix B.10	Assistance to a failed train	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance of network rules with this appendix	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

						Other <input type="checkbox"/> please state:	
Appendix B.11	Authorisation to pass a signal showing a stop aspect/indication	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance of network rules with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix B.12	Anomalies in lineside signalling	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance of network rules with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix B.13	Emergency call	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance of network rules with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix B.14	Immediate actions to prevent danger to trains	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance of network rules with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

						Other <input type="checkbox"/> please state:	
Appendix C.2	Communication structure	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance of network rules with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix C.3	Communication methodology	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance of network rules with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix C.4	Communication rules	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>



TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

			compliance of network rules with this appendix			principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	Other <input type="checkbox"/> please state:
Appendix C.5	Communication terms (general)	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance of network rules with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix C.6	Written orders	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance of network rules with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

Appendix C.7	Terms (written orders)	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix C.8	Book of forms	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix D	Elements the IM has to provide to the RU for the Route Book and for the train compatibility	01/07/2017	Route book being developed for all routes		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be	RU <input type="checkbox"/> IM <input checked="" type="checkbox"/>  Other <input type="checkbox"/> please state:

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

	over the route intended for operation					developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	
Appendix F.1	Minimum elements relevant to professional qualification for the tasks associated with 'accompanying trains' – general requirements	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix F.2	Professional knowledge	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/>  Other <input type="checkbox"/> please state:

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

Appendix F.3	Ability to put the knowledge into practice	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix G.1	Minimum elements relevant to professional qualification for the tasks of preparing trains – general requirements	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix G.2	Professional knowledge	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/>  Other <input type="checkbox"/> please state:

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

						developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	
Appendix G.3	Ability to put the knowledge into practice	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix H.1	European vehicle number and linked alphabetical marking on the bodywork – general provisions	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/>  Other <input type="checkbox"/> please state:

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

Appendix H.2	General arrangements for external markings	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix H.3	Wagons	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix H.4	Coaches and hauled passenger stock	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/>  Other <input type="checkbox"/> please state:

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

						developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	
Appendix H.5	Locomotives, power cars and special vehicles	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance with this appendix		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/>  Other <input type="checkbox"/> please state:
Appendix H.6	Alphabetical marking of interoperability capability	01/07/2018	Explanation: Gap analysis being conducted to identify any areas of non-compliance with this appendix Vehicle marked according to the alphabetical coding system described in Appendix 4 to the 1949 UN convention and Article 45(4) of the 1968 UN convention on road traffic.		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Justification:	Specific case: <input type="checkbox"/> Common operational rule/principle to be developed in appendix B: <input type="checkbox"/> Deficiency: <input type="checkbox"/> Justification:	RU <input checked="" type="checkbox"/> IM <input type="checkbox"/>  Other <input type="checkbox"/> please state:

TSI OPE Requirement	Question 1	Question 2a	Question 2b	Question 3	Question 4	Question 5
	When has this requirement been implemented or when do you plan to be compliant with this requirement?	How is this requirement implemented?	Provide SMS reference	a) Specific National Rule (NR) that relates to this? Reference/title of the NR? b) Can NR be withdrawn? If not, why not?	Does this mean that - national specific case needed, or - common operational principle/rule should be developed in Appendix B, or - deficiency in the TSI should be raised?	Who is the actor responsible for this process?

			GB  <b>IRL</b>				
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