

Mr Steve Leigh  
Program Manager  
Network Rail Telecoms  
The Quadrant, Level 2 Caldecotte,  
Eldergate  
Milton Keynes  
Buckinghamshire  
MK9 1EN

Your Ref : OP158365  
R00020

Case Ref : PRM-IOP-0333

IN Number : As listed

Date: 19<sup>th</sup> January 2022

**Contact: Adam Buckland**

2 Rivergate,  
Temple Quay,  
Bristol.  
BS1 6EH.

Dear Steve,

**THE RAILWAYS (INTEROPERABILITY) REGULATIONS 2011, AS AMENDED UK TYPE AUTHORISATION OF GSM-R V4.0 FITTED TO THE VEHICLES LISTED IN THIS LETTER IN CONFORMITY WITH EUROPEAN REGISTER OF AUTHORISED TYPE REFERENCE 11-095-0001-5-001.**

I refer to your application for authorisation against an approved type, received on 12<sup>th</sup> January 2022. Following a review of your application, I can confirm that ORR grants an authorisation under regulation 9 of the Railways (Interoperability) Regulations 2011, as amended.

This authorisation is for the placing in service of V4.0 GSM-R Cab Mobile sub system fitted with an interference resistant transceiver. In addition, there is an option to replace the current GSM-R antenna with a combined GSM-R/GPS antenna and to fit and additional LTE antenna.

- GSM-R Cab Mobile Type - GSM-R V4.0 Cab Mobile SVR400+ with NR4.0 software (Build 1127) which incorporate an ETSI TS 102 933 V 2.1.1 compliant transceiver.
- GSM-R/GPS antenna (Fitment of combined GSM-R/GPS antennae is optional)
  - Huber & Suhner – SWA-0825/360/5/30/DFRX30
  - Polomarconi – BGLD1/S
- LTE antenna (Fitment of LTE antennae is optional)
  - Huber & Suhner – SWA-0825/360/5/30/MIMO
  - Panorama Antennas – TRNM-7-60-NJ
  - Polomarconi – T01811814
  - Huber & Suhner – Sencity Rail MIMO Antenna 1399.17.0222

This conforms to European Register of Authorised Types (ERATV) type 11-095-0001-5-001.

It is noted that V4.0 GSM-R cab mobile build number, 1136, is included within this application. You have confirmed with your Approved Body that the two modifications in this build do not change either the GSM-R cab mobile software or related hardware on the train. This build is, therefore, considered by Network Rail and the manufacturer as a minor change with no part of the applicable National Technical Specification Notice (NTSN) or Technical Specification for Interoperability (TSI) being impacted. Therefore, it is considered that the initial determination of type remains unchanged.

I refer to your documents V4.0 GSM-R Cab Mobile Build 1136 Significance Decision, dated the 3<sup>rd</sup> September 2021 and the Letter of Assessment of Minor Change reference ACS9244 L02 dated the 30<sup>th</sup> July 2021.

This authorisation applies to the following inclusive.

Operator	Class	Vehicle	Cab	V4.0 Installation Date	IN
7029 Clun Castle Ltd	98	98549	A	29/11/2021	UK/51/2020/0017
7029 Clun Castle Ltd	98	98729	A	25/11/2021	UK/51/2020/0017
Abellio ScotRail	385	385001	A	14/11/2021	UK/51/2021/0058
Abellio ScotRail	385	385001	B	14/11/2021	UK/51/2021/0058
Abellio ScotRail	385	385005	A	22/11/2021	UK/51/2021/0058
Abellio ScotRail	385	385005	B	22/11/2021	UK/51/2021/0058
Abellio ScotRail	385	385008	A	01/12/2021	UK/51/2021/0058
Abellio ScotRail	385	385008	B	01/12/2021	UK/51/2021/0058
Abellio ScotRail	385	385010	A	15/11/2021	UK/51/2021/0058
Abellio ScotRail	385	385010	B	15/11/2021	UK/51/2021/0058
Abellio ScotRail	385	385033	A	02/12/2021	UK/51/2021/0058
Abellio ScotRail	385	385033	B	02/12/2021	UK/51/2021/0058
Abellio ScotRail	385	385038	A	17/11/2021	UK/51/2021/0058
Abellio ScotRail	385	385038	B	17/11/2021	UK/51/2021/0058
Abellio ScotRail	385	385046	A	23/11/2021	UK/51/2021/0058
Abellio ScotRail	385	385046	B	23/11/2021	UK/51/2021/0058
Abellio ScotRail	385	385106	B	23/12/2021	UK/51/2021/0058
Abellio ScotRail	385	385118	A	14/11/2021	UK/51/2021/0058
Abellio ScotRail	43	43012	A	24/11/2021	UK/51/2020/0056
Abellio ScotRail	43	43132	A	08/12/2021	UK/51/2020/0056

Arlington Fleet Services	47	47818	A	23/11/2021	UK/51/2020/0034
Arriva Rail London	710	710106	A	08/12/2021	UK/51/2021/0049
Arriva Rail London	710	710106	B	08/12/2021	UK/51/2021/0049
Arriva Rail London	710	710116	A	28/11/2021	UK/51/2021/0049
Arriva Rail London	710	710116	B	28/11/2021	UK/51/2021/0049
Arriva Rail London	710	710119	A	28/11/2021	UK/51/2021/0049
Arriva Rail London	710	710119	B	28/11/2021	UK/51/2021/0049
Arriva Rail London	710	710120	A	27/11/2021	UK/51/2021/0049
Arriva Rail London	710	710120	B	27/11/2021	UK/51/2021/0049
Avanti West Coast	390	390125	A	14/12/2021	UK/51/2021/0060
Avanti West Coast	390	390125	B	14/12/2021	UK/51/2021/0060
Bodmin & Wenford Railway	121	121020	A	16/12/2021	UK/51/2021/0055
Colas Rail	073	073919	A	05/01/2022	UK/51/2020/0018
Colas Rail	073	073919	B	05/01/2022	UK/51/2020/0018
Colas Rail	075	075010	A	06/01/2022	UK/51/2020/0016
Colas Rail	075	075010	B	06/01/2022	UK/51/2020/0016
Colas Rail	37	37175	A	20/12/2021	UK/51/2020/0015
Colas Rail	37	37219	A	16/12/2021	UK/51/2020/0015
Colas Rail	37	37254	A	12/12/2021	UK/51/2020/0015
Colas Rail	43	43277	A	12/12/2021	UK/51/2020/0056
Colas Rail	56	56049	A	10/12/2021	UK/51/2020/0063
Colas Rail	56	56087	A	10/12/2021	UK/51/2020/0063
Colas Rail	56	56105	A	15/12/2021	UK/51/2020/0063
Colas Rail	56	56302	A	08/12/2021	UK/51/2020/0063
DB Cargo	60	60019	A	20/12/2021	UK/51/2020/0064
DB Cargo	66	66001	A	16/12/2021	UK/51/2020/0001
DB Cargo	66	66021	A	25/11/2021	UK/51/2020/0001
DB Cargo	66	66034	A	17/12/2021	UK/51/2020/0001
DB Cargo	66	66035	A	22/11/2021	UK/51/2020/0001
DB Cargo	66	66051	A	15/11/2021	UK/51/2020/0001
DB Cargo	66	66075	A	07/12/2021	UK/51/2020/0001
DB Cargo	66	66079	A	21/12/2021	UK/51/2020/0001
DB Cargo	66	66090	A	30/11/2021	UK/51/2020/0001
DB Cargo	66	66094	A	22/11/2021	UK/51/2020/0001
DB Cargo	66	66095	A	06/12/2021	UK/51/2020/0001
DB Cargo	66	66098	A	15/12/2021	UK/51/2020/0001
DB Cargo	66	66102	A	15/11/2021	UK/51/2020/0001
DB Cargo	66	66111	A	01/12/2021	UK/51/2020/0001
DB Cargo	66	66120	A	22/12/2021	UK/51/2020/0001

DB Cargo	66	66131	A	02/12/2021	UK/51/2020/0001
DB Cargo	66	66133	A	01/12/2021	UK/51/2020/0001
DB Cargo	66	66134	A	06/12/2021	UK/51/2020/0001
DB Cargo	66	66136	A	22/12/2021	UK/51/2020/0001
DB Cargo	66	66156	A	10/12/2021	UK/51/2020/0001
DB Cargo	66	66165	A	26/11/2021	UK/51/2020/0001
DB Cargo	66	66169	A	15/11/2021	UK/51/2020/0001
DB Cargo	66	66187	A	06/12/2021	UK/51/2020/0001
DB Cargo	66	66188	A	01/12/2021	UK/51/2020/0001
DB Cargo	67	67016	A	14/12/2021	UK/51/2021/0029
DB Cargo	92	92011	A	26/11/2021	UK/51/2021/0050
Diesel Heritage Vehicles	142	142017	A	02/12/2021	UK/51/2021/0061
Diesel Heritage Vehicles	142	142017	B	02/12/2021	UK/51/2021/0061
East Midlands Railway	153	153357	A	15/11/2021	UK/51/2021/0024
East Midlands Railway	158	158863	A	04/01/2022	UK/51/2020/0013
East Midlands Railway	158	158863	B	04/01/2022	UK/51/2020/0013
Eastern Rail Services	31	31452	A	06/01/2022	UK/51/2021/0046
GB Railfreight	60	60056	A	20/12/2021	UK/51/2020/0064
GB Railfreight	60	60095	A	20/12/2021	UK/51/2020/0064
GB Railfreight	66	66724	A	27/12/2021	UK/51/2020/0001
GB Railfreight	66	66727	A	21/12/2021	UK/51/2020/0001
GB Railfreight	66	66766	A	24/12/2021	UK/51/2020/0001
GB Railfreight	66	66782	A	06/01/2022	UK/51/2020/0001
GB Railfreight	66	66799	A	23/12/2021	UK/51/2020/0001
GB Railfreight	69	69004	A	14/12/2021	UK/51/2021/0008
GB Railfreight	73	73961	A	18/11/2021	UK/51/2020/0018
GB Railfreight	73	73961	B	18/11/2021	UK/51/2020/0018
GB Railfreight	73	73966	A	08/12/2021	UK/51/2020/0018
GB Railfreight	73	73966	B	08/12/2021	UK/51/2020/0018
GB Railfreight	73	73967	A	23/11/2021	UK/51/2020/0018
GB Railfreight	73	73967	B	23/11/2021	UK/51/2020/0018
GB Railfreight	73	73968	A	10/12/2021	UK/51/2020/0018
GB Railfreight	73	73968	B	09/12/2021	UK/51/2020/0018
GB Railfreight	73	73969	A	04/01/2022	UK/51/2020/0018
GB Railfreight	73	73969	B	04/01/2022	UK/51/2020/0018
GB Railfreight	73	73970	A	22/11/2021	UK/51/2020/0018
GB Railfreight	73	73971	A	24/11/2021	UK/51/2020/0018
GB Railfreight	73	73971	B	24/11/2021	UK/51/2020/0018
GB Railfreight	92	92006	A	18/11/2021	UK/51/2021/0050

GB Railfreight	92	92010	A	02/12/2021	UK/51/2021/0050
GB Railfreight	92	92014	A	14/12/2021	UK/51/2021/0050
GB Railfreight	92	92018	A	30/11/2021	UK/51/2021/0050
GB Railfreight	92	92020	A	09/12/2021	UK/51/2021/0050
GB Railfreight	92	92023	A	02/12/2021	UK/51/2021/0050
GB Railfreight	92	92028	A	30/11/2021	UK/51/2021/0050
GB Railfreight	92	92032	A	03/12/2021	UK/51/2021/0050
GB Railfreight	92	92033	A	01/12/2021	UK/51/2021/0050
GB Railfreight	92	92038	A	07/12/2021	UK/51/2021/0050
GB Railfreight	92	92043	A	01/12/2021	UK/51/2021/0050
GB Railfreight	92	92044	A	18/11/2021	UK/51/2021/0050
Govia Thameslink Railway	700	700002	A	04/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700002	B	04/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700003	A	21/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700003	B	22/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700006	A	03/12/2021	UK/51/2020/0045
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Govia Thameslink Railway	700	700010	B	07/12/2021	UK/51/2020/0045
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Govia Thameslink Railway	700	700011	B	05/12/2021	UK/51/2020/0045
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Govia Thameslink Railway	700	700022	B	20/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700023	A	10/12/2021	UK/51/2020/0045
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Govia Thameslink Railway	700	700024	A	05/12/2021	UK/51/2020/0045
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Govia Thameslink Railway	700	700033	A	23/12/2021	UK/51/2020/0045
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Govia Thameslink Railway	700	700042	A	18/11/2021	UK/51/2020/0045
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Govia Thameslink Railway	700	700050	A	03/12/2021	UK/51/2020/0045
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Govia Thameslink Railway	700	700051	B	25/11/2021	UK/51/2020/0045
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Govia Thameslink Railway	700	700055	A	14/11/2021	UK/51/2020/0045
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Govia Thameslink Railway	700	700101	A	01/12/2021	UK/51/2020/0045
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Govia Thameslink Railway	700	700102	A	13/12/2021	UK/51/2020/0045
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Govia Thameslink Railway	700	700103	A	17/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700103	B	17/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700104	A	31/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700104	B	31/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700105	A	24/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700105	B	24/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700106	A	20/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700106	B	20/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700107	A	07/12/2021	UK/51/2020/0045
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Govia Thameslink Railway	700	700108	A	12/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700108	B	12/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700109	A	24/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700109	B	24/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700110	A	30/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700110	B	30/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700111	A	29/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700111	B	29/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700112	A	19/11/2021	UK/51/2020/0045

Govia Thameslink Railway	700	700112	B	19/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700113	A	27/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700113	B	27/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700114	A	11/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700114	B	11/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700115	A	23/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700115	B	23/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700116	A	05/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700116	B	05/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700117	A	23/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700117	B	23/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700118	A	04/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700118	B	04/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700119	A	01/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700119	B	01/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700120	A	17/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700120	B	17/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700121	A	29/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700121	B	29/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700122	A	17/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700122	B	17/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700123	A	17/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700123	B	17/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700124	A	25/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700124	B	26/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700126	A	10/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700126	B	10/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700128	A	08/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700128	B	08/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700129	A	10/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700129	B	10/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700130	A	15/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700130	B	15/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700132	A	05/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700132	B	05/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700133	A	22/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700133	B	22/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700134	A	19/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700135	A	19/11/2021	UK/51/2020/0045



Govia Thameslink Railway	700	700135	B	19/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700136	A	30/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700136	B	19/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700137	A	25/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700137	B	25/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700138	A	12/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700138	B	12/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700139	A	20/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700139	B	20/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700140	A	04/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700140	B	04/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700141	A	12/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700141	B	12/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700142	A	23/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700142	B	23/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700143	A	22/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700143	B	22/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700144	A	16/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700144	B	16/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700145	A	03/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700145	B	03/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700146	A	24/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700146	B	24/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700147	A	15/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700147	B	15/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700148	A	13/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700148	B	13/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700149	A	25/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700149	B	25/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700150	A	21/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700150	B	21/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700151	A	05/01/2022	UK/51/2020/0045
Govia Thameslink Railway	700	700151	B	07/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700152	A	22/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700152	B	22/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700153	A	09/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700153	B	09/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700154	A	25/11/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700154	B	25/11/2021	UK/51/2020/0045

Govia Thameslink Railway	700	700155	A	18/12/2021	UK/51/2020/0045
Govia Thameslink Railway	700	700155	B	18/12/2021	UK/51/2020/0045
Grand Central Railway	180	180102	A	14/12/2021	UK/51/2021/0030
Grand Central Railway	180	180102	B	14/12/2021	UK/51/2021/0030
Grand Central Railway	180	180105	A	17/12/2021	UK/51/2021/0030
Grand Central Railway	180	180105	B	17/12/2021	UK/51/2021/0030
Grand Central Railway	180	180106	A	08/01/2022	UK/51/2021/0030
Grand Central Railway	180	180106	B	08/01/2022	UK/51/2021/0030
Grand Central Railway	180	180107	A	13/12/2021	UK/51/2021/0030
Grand Central Railway	180	180107	B	13/12/2021	UK/51/2021/0030
Grand Central Railway	180	180108	A	08/12/2021	UK/51/2021/0030
Grand Central Railway	180	180108	B	08/12/2021	UK/51/2021/0030
Grand Central Railway	180	180112	A	09/12/2021	UK/51/2021/0030
Grand Central Railway	180	180112	B	10/12/2021	UK/51/2021/0030
Grand Central Railway	180	180114	A	02/12/2021	UK/51/2021/0030
Grand Central Railway	180	180114	B	02/12/2021	UK/51/2021/0030
Great Western Railway	57	57602	A	17/11/2021	UK/51/2020/0071
Great Western Railway	800	800016	A	16/11/2021	UK/51/2021/0013
Great Western Railway	800	800017	A	24/11/2021	UK/51/2021/0013
Great Western Railway	800	800017	B	24/11/2021	UK/51/2021/0013
Great Western Railway	800	800018	A	15/11/2021	UK/51/2021/0013
Great Western Railway	800	800018	B	15/11/2021	UK/51/2021/0013
Great Western Railway	800	800021	A	30/11/2021	UK/51/2021/0013
Great Western Railway	800	800021	B	30/11/2021	UK/51/2021/0013
Greater Anglia	321	321335	A	07/12/2021	UK/51/2020/0068
Greater Anglia	321	321335	B	07/12/2021	UK/51/2020/0068
Greater Anglia	321	321336	A	18/11/2021	UK/51/2020/0068
Greater Anglia	321	321336	B	18/11/2021	UK/51/2020/0068
Greater Anglia	321	321338	A	21/12/2021	UK/51/2020/0068
Greater Anglia	321	321338	B	21/12/2021	UK/51/2020/0068
Greater Anglia	321	321339	A	22/12/2021	UK/51/2020/0068
Greater Anglia	321	321339	B	22/12/2021	UK/51/2020/0068
Greater Anglia	321	321340	A	23/11/2021	UK/51/2020/0068
Greater Anglia	321	321340	B	23/11/2021	UK/51/2020/0068
Greater Anglia	321	321341	A	23/11/2021	UK/51/2020/0068
Greater Anglia	321	321341	B	23/11/2021	UK/51/2020/0068
Greater Anglia	321	321343	A	15/11/2021	UK/51/2020/0068
Greater Anglia	321	321343	B	15/11/2021	UK/51/2020/0068
Greater Anglia	321	321406	A	03/12/2021	UK/51/2020/0068

Greater Anglia	321	321406	B	03/12/2021	UK/51/2020/0068
Greater Anglia	321	321421	A	16/11/2021	UK/51/2020/0068
Greater Anglia	321	321424	A	23/12/2021	UK/51/2020/0068
Greater Anglia	321	321424	B	23/12/2021	UK/51/2020/0068
Greater Anglia	321	321430	A	21/12/2021	UK/51/2020/0068
Greater Anglia	321	321430	B	21/12/2021	UK/51/2020/0068
Greater Anglia	321	321436	A	21/12/2021	UK/51/2020/0068
Greater Anglia	321	321436	B	21/12/2021	UK/51/2020/0068
Hanson & Hall	43	43480	A	21/12/2021	UK/51/2020/0056
Hanson & Hall	43	43484	A	21/12/2021	UK/51/2020/0056
Kinlet Hall Loco Ltd	98	98536	A	26/11/2021	UK/51/2020/0017
LNER	82	82222	A	08/12/2021	UK/51/2020/0044
LNER	91	91105	A	08/12/2021	UK/51/2021/0062
Mangapps Railway	31	31105	A	22/12/2021	UK/51/2021/0046
Mangapps Railway	31	31233	A	16/12/2021	UK/51/2021/0046
Merch Navy Loco Prese Society	98	98828	A	22/11/2021	UK/51/2020/0017
Merseyrail	507	507015	A	15/11/2021	UK/51/2020/0011
Merseyrail	507	507015	B	15/11/2021	UK/51/2020/0011
Merseyrail	507	507016	A	19/11/2021	UK/51/2020/0011
Merseyrail	507	507016	B	19/11/2021	UK/51/2020/0011
Merseyrail	507	507017	A	09/12/2021	UK/51/2020/0011
Merseyrail	507	507017	B	09/12/2021	UK/51/2020/0011
Merseyrail	507	507019	A	25/11/2021	UK/51/2020/0011
Merseyrail	507	507019	B	25/11/2021	UK/51/2020/0011
Merseyrail	507	507020	A	29/11/2021	UK/51/2020/0011
Merseyrail	507	507020	B	29/11/2021	UK/51/2020/0011
Merseyrail	507	507021	A	01/12/2021	UK/51/2020/0011
Merseyrail	507	507021	B	01/12/2021	UK/51/2020/0011
Merseyrail	507	507028	A	03/12/2021	UK/51/2020/0011
Merseyrail	507	507028	B	03/12/2021	UK/51/2020/0011
Merseyrail	507	507033	A	17/11/2021	UK/51/2020/0011
Merseyrail	507	507033	B	17/11/2021	UK/51/2020/0011
Network Rail	079	079101	A	24/11/2021	UK/51/2020/0070
Network Rail	079	079101	B	24/11/2021	UK/51/2020/0070
Network Rail	080	080217	A	21/12/2021	UK/51/2021/0042
Network Rail	097	097509	A	23/11/2021	UK/51/2021/0016
Network Rail	097	097510	A	23/11/2021	UK/51/2021/0016
Network Rail	097	097511	A	22/11/2021	UK/51/2021/0016
Network Rail	097	097512	A	23/11/2021	UK/51/2021/0016

Network Rail	43	43290	A	23/12/2021	UK/51/2020/0056
Network Rail	82	82129	A	22/11/2021	UK/51/2020/0044
Network Rail	82	82145	A	23/11/2021	UK/51/2020/0044
North Somerset Railway	960	960301	A	23/11/2021	UK/51/2021/0063
North Somerset Railway	960	960301	B	23/11/2021	UK/51/2021/0063
Preservation	142	142036	A	02/12/2021	UK/51/2021/0061
Preservation	142	142036	B	02/12/2021	UK/51/2021/0061
Preservation	144	144017	A	15/12/2021	UK/51/2021/0066
Preservation	144	144017	B	15/12/2021	UK/51/2021/0066
Preservation	144	144020	A	29/11/2021	UK/51/2021/0066
Preservation	144	144020	B	29/11/2021	UK/51/2021/0066
ROSCO Storage	144	144005	A	02/12/2021	UK/51/2021/0066
ROSCO Storage	144	144005	B	02/12/2021	UK/51/2021/0066
ROSCO Storage	144	144012	A	22/12/2021	UK/51/2021/0066
ROSCO Storage	144	144012	B	22/12/2021	UK/51/2021/0066
ROSCO Storage	144	144015	A	22/12/2021	UK/51/2021/0066
ROSCO Storage	144	144015	B	22/12/2021	UK/51/2021/0066
ROSCO Storage	144	144021	A	22/12/2021	UK/51/2021/0066
ROSCO Storage	144	144021	B	22/12/2021	UK/51/2021/0066
ROSCO Storage	153	153316	A	21/12/2021	UK/51/2021/0024
ROSCO Storage	153	153334	A	20/12/2021	UK/51/2021/0024
ROSCO Storage	153	153354	A	20/12/2021	UK/51/2021/0024
ROSCO Storage	153	153356	A	20/12/2021	UK/51/2021/0024
ROSCO Storage	153	153365	A	20/12/2021	UK/51/2021/0024
ROSCO Storage	153	153371	A	21/12/2021	UK/51/2021/0024
ROSCO Storage	153	153375	A	21/12/2021	UK/51/2021/0024
ROSCO Storage	153	153381	A	21/12/2021	UK/51/2021/0024
ROSCO Storage	153	153383	A	20/12/2021	UK/51/2021/0024
ROSCO Storage	321	321402	A	21/12/2021	UK/51/2020/0068
ROSCO Storage	321	321402	B	21/12/2021	UK/51/2020/0068
ROSCO Storage	321	321405	A	21/12/2021	UK/51/2020/0068
ROSCO Storage	321	321405	B	21/12/2021	UK/51/2020/0068
ROSCO Storage	321	321408	A	07/12/2021	UK/51/2020/0068
ROSCO Storage	321	321408	B	07/12/2021	UK/51/2020/0068
ROSCO Storage	321	321431	A	21/12/2021	UK/51/2020/0068
ROSCO Storage	321	321431	B	21/12/2021	UK/51/2020/0068
ROSCO Storage	321	321432	A	07/12/2021	UK/51/2020/0068
ROSCO Storage	321	321432	B	07/12/2021	UK/51/2020/0068
ROSCO Storage	321	321439	A	07/12/2021	UK/51/2020/0068

ROSCO Storage	321	321439	B	07/12/2021	UK/51/2020/0068
ROSCO Storage	321	321443	A	07/12/2021	UK/51/2020/0068
ROSCO Storage	321	321443	B	07/12/2021	UK/51/2020/0068
ROSCO Storage	321	321444	A	07/12/2021	UK/51/2020/0068
ROSCO Storage	321	321444	B	07/12/2021	UK/51/2020/0068
ROSCO Storage	321	321445	A	21/12/2021	UK/51/2020/0068
ROSCO Storage	321	321445	B	21/12/2021	UK/51/2020/0068
ROSCO Storage	43	43052	A	02/12/2021	UK/51/2020/0056
ROSCO Storage	82	82204	A	01/12/2021	UK/51/2020/0044
ROSCO Storage	82	82209	A	01/12/2021	UK/51/2020/0044
ROSCO Storage	82	82216	A	16/11/2021	UK/51/2020/0044
Steam Loco	98	98513	A	23/11/2021	UK/51/2020/0017
TransPennine Express	12	12807	A	03/01/2022	UK/51/2022/0001
TransPennine Express	12	12813	A	04/01/2022	UK/51/2022/0001
TransPennine Express	12	12814	A	02/01/2022	UK/51/2022/0001
TransPennine Express	397	397001	A	07/01/2022	UK/51/2022/0002
TransPennine Express	397	397001	B	07/01/2022	UK/51/2022/0002
TransPennine Express	397	397003	A	30/12/2021	UK/51/2022/0002
TransPennine Express	397	397003	B	30/12/2021	UK/51/2022/0002
TransPennine Express	397	397004	A	19/12/2021	UK/51/2022/0002
TransPennine Express	397	397004	B	19/12/2021	UK/51/2022/0002
TransPennine Express	397	397006	A	07/12/2021	UK/51/2022/0002
TransPennine Express	397	397007	A	08/01/2022	UK/51/2022/0002
TransPennine Express	397	397007	B	08/01/2022	UK/51/2022/0002
TransPennine Express	397	397008	A	15/12/2021	UK/51/2022/0002
TransPennine Express	397	397008	B	15/12/2021	UK/51/2022/0002
TransPennine Express	397	397009	A	06/01/2022	UK/51/2022/0002
TransPennine Express	397	397009	B	06/01/2022	UK/51/2022/0002
TransPennine Express	397	397011	A	18/12/2021	UK/51/2022/0002
TransPennine Express	397	397011	B	18/12/2021	UK/51/2022/0002
TransPennine Express	397	397012	A	08/01/2022	UK/51/2022/0002
TransPennine Express	397	397012	B	08/01/2022	UK/51/2022/0002
Transport for Wales	153	153323	A	16/11/2021	UK/51/2021/0024
Transport for Wales	153	153914	A	25/11/2021	UK/51/2021/0024
Transport for Wales	153	153926	A	21/11/2021	UK/51/2021/0024
Transport for Wales	153	153935	A	16/11/2021	UK/51/2021/0024
Transport for Wales	158	158819	A	23/11/2021	UK/51/2020/0013
Transport for Wales	158	158819	B	23/11/2021	UK/51/2020/0013
Transport for Wales	158	158823	A	20/11/2021	UK/51/2020/0013

Transport for Wales	158	158823	B	20/11/2021	UK/51/2020/0013
Transport for Wales	158	158833	A	20/11/2021	UK/51/2020/0013
Transport for Wales	158	158833	B	20/11/2021	UK/51/2020/0013
Transport for Wales	158	158834	A	20/11/2021	UK/51/2020/0013
Transport for Wales	158	158834	B	20/11/2021	UK/51/2020/0013
Transport for Wales	158	158836	A	24/11/2021	UK/51/2020/0013
Transport for Wales	158	158836	B	24/11/2021	UK/51/2020/0013
Transport for Wales	158	158838	A	15/11/2021	UK/51/2020/0013
Transport for Wales	158	158838	B	15/11/2021	UK/51/2020/0013
Transport for Wales	158	158841	A	29/12/2021	UK/51/2020/0013
Transport for Wales	158	158841	B	29/12/2021	UK/51/2020/0013
Transport for Wales	175	175002	A	16/11/2021	UK/51/2021/0068
Transport for Wales	175	175002	B	16/11/2021	UK/51/2021/0068
Transport for Wales	175	175104	A	22/11/2021	UK/51/2021/0068
Transport for Wales	175	175104	B	22/11/2021	UK/51/2021/0068
Transport for Wales	175	175110	A	15/11/2021	UK/51/2021/0068
Transport for Wales	175	175110	B	15/11/2021	UK/51/2021/0068
Transport for Wales	175	175111	A	21/11/2021	UK/51/2021/0068
Transport for Wales	175	175111	B	21/11/2021	UK/51/2021/0068
Transport for Wales	175	175114	A	11/12/2021	UK/51/2021/0068
Transport for Wales	175	175114	B	11/12/2021	UK/51/2021/0068
Transport for Wales	175	175116	A	22/11/2021	UK/51/2021/0068
Transport for Wales	175	175116	B	22/11/2021	UK/51/2021/0068
Transport for Wales	82	82201	A	15/12/2021	UK/51/2020/0044
Transport for Wales	82	82226	A	22/11/2021	UK/51/2020/0044
Transport for Wales	82	82227	A	15/12/2021	UK/51/2020/0044
Transport for Wales	82	82229	A	16/11/2021	UK/51/2020/0044
Transport for Wales	82	82230	A	23/11/2021	UK/51/2020/0044
West Coast Railways	86	86259	A	24/12/2021	UK/51/2020/0003
West Coast Railways	86	86259	B	24/12/2021	UK/51/2020/0003
West Midlands Trains	170	170502	A	17/11/2021	UK/51/2020/0051
West Midlands Trains	170	170502	B	17/11/2021	UK/51/2020/0051

The restrictions or limitations of use on the structural subsystem are those referenced in the Determination of Type.

The rolling stock subsystem authorised by this letter must be operated and maintained in accordance with Regulation 20.

You should be aware that any future modifications to the authorised subsystem may constitute a ‘renewal’ or an ‘upgrade’ as defined in Regulation 2. If a project entity, in relation to the project, considers that the modification meets either of these definitions they may apply, in accordance with the provisions of Regulation 13, to the Department for Transport (DfT) for a decision on whether a new authorisation will be required. Should DfT decide that an authorisation is not required they must consult with ORR whether authorisation is required on safety grounds.

As the project entity you are responsible for retaining the declaration of conformity to an authorised type of railway vehicle, documentation recording any alterations, and maintenance manuals in relation to the subsystem, keeping them up to date and making them available to the ORR in accordance with Regulation 19.

If you are not the owner of the authorised subsystem you shall within 60 days, in accordance with Regulation 19(3), transfer the declaration of conformity to an authorised type of railway vehicle, documentation recording any alterations, and maintenance manuals in relation to the subsystem to the owner of the subsystem and the owner shall then be regarded as the project entity. If the owner, in accordance with Regulation 19(4), disposes of his interest in the authorised subsystem, he shall within 60 days of the disposal transfer the declaration of conformity to an authorised type of railway vehicle, documentation recording any alterations, and maintenance manuals in relation to the subsystem to the person acquiring that interest and that person shall be regarded as the project entity.

Please note that under Regulation 36, the person who applied for the authorisation shall send particulars to the Registration Entity to enable the registration entity to enter the information on the National Vehicle Register. This will include such further information as the registration entity may reasonably require set out in the relevant standard.

If you are the operator, may I remind you of the need to have adequate arrangements within your Safety Management System to control the risks associated with this rolling stock subsystem.

This decision letter will be published on ORR’s website.

Yours sincerely



Steve Fletcher      ORR Deputy Director, Railway Planning and Performance

Cc

Ian Jones            Head of Interoperability, Safety and Standards DfT.

Ian Prosser         Director, Railway Safety, ORR.

National Vehicle Register [nvr@networkrail.co.uk](mailto:nvr@networkrail.co.uk)

David Galloway     Head of Vehicle Compatibility, Network Rail.

Pete Gracey         Head of Interoperability and Rail Vehicle Engineering, ORR.

Ian Maxwell         Head of Train Control Systems, ORR.