

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

Your Ref : OP158365  
R00011

Case Ref : PRM-IOP-0333

EIN Number : As listed

Date: 30<sup>th</sup> November 2020

**Contact: Adam Buckland**

2<sup>nd</sup> Floor, 2 Rivergate,  
Temple Quay,  
Bristol.  
BS1 6EH.

Dear Steve,

**THE RAILWAYS (INTEROPERABILITY) REGULATIONS 2011, AS AMENDED  
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 type authorisation, received on 20<sup>th</sup> November 2020. 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.

This authorisation applies to the following inclusive.

Operator	Class	Vehicle	Cab	V4.0 Installation Date	EIN
Chiltern Railways	168	168324	A	18/10/2020	UK/51/2020/0043
Chiltern Railways	168	168324	B	18/10/2020	UK/51/2020/0043
Cross Country	170	170103	A	03/11/2020	UK/51/2020/0051
Cross Country	170	170103	B	03/11/2020	UK/51/2020/0051
Cross Country	170	170104	A	26/10/2020	UK/51/2020/0051
Cross Country	170	170104	B	26/10/2020	UK/51/2020/0051
Cross Country	170	170106	A	04/11/2020	UK/51/2020/0051
Cross Country	170	170106	B	04/11/2020	UK/51/2020/0051
Cross Country	170	170108	A	21/10/2020	UK/51/2020/0051
Cross Country	170	170108	B	21/10/2020	UK/51/2020/0051
Cross Country	170	170109	A	27/10/2020	UK/51/2020/0051
Cross Country	170	170109	B	27/10/2020	UK/51/2020/0051
Cross Country	170	170111	A	29/10/2020	UK/51/2020/0051
Cross Country	170	170111	B	29/10/2020	UK/51/2020/0051
Cross Country	170	170115	A	22/10/2020	UK/51/2020/0051
Cross Country	170	170115	B	22/10/2020	UK/51/2020/0051
Cross Country	170	170116	A	27/10/2020	UK/51/2020/0051
Cross Country	170	170116	B	27/10/2020	UK/51/2020/0051
Cross Country	170	170397	A	13/11/2020	UK/51/2020/0051
Cross Country	170	170397	B	13/11/2020	UK/51/2020/0051
Cross Country	170	170398	A	20/10/2020	UK/51/2020/0051
Cross Country	170	170398	B	20/10/2020	UK/51/2020/0051
Cross Country	170	170518	A	13/11/2020	UK/51/2020/0051
Cross Country	170	170518	B	13/11/2020	UK/51/2020/0051
Cross Country	170	170519	A	05/11/2020	UK/51/2020/0051
Cross Country	170	170519	B	05/11/2020	UK/51/2020/0051
Cross Country	170	170521	A	02/11/2020	UK/51/2020/0051
Cross Country	170	170521	B	02/11/2020	UK/51/2020/0051
Cross Country	170	170639	A	28/10/2020	UK/51/2020/0051
Cross Country	170	170639	B	28/10/2020	UK/51/2020/0051
Cross Country	220	220004	A	29/10/2020	UK/51/2020/0061
Cross Country	220	220004	B	29/10/2020	UK/51/2020/0061

Cross Country	220	220016	A	12/11/2020	UK/51/2020/0061
Cross Country	220	220016	B	12/11/2020	UK/51/2020/0061
Cross Country	221	221119	A	02/11/2020	UK/51/2020/0062
Cross Country	221	221119	B	02/11/2020	UK/51/2020/0062
Cross Country	221	221120	A	30/10/2020	UK/51/2020/0062
Cross Country	221	221120	B	30/10/2020	UK/51/2020/0062
Cross Country	221	221121	A	05/11/2020	UK/51/2020/0062
Cross Country	221	221121	B	05/11/2020	UK/51/2020/0062
Cross Country	221	221130	B	28/10/2020	UK/51/2020/0062
Cross Country	221	221132	A	03/11/2020	UK/51/2020/0062
Cross Country	221	221132	B	03/11/2020	UK/51/2020/0062
Cross Country	43	43285	A	27/10/2020	UK/51/2020/0056
Cross Country	43	43301	A	02/11/2020	UK/51/2020/0056
Cross Country	43	43304	A	13/11/2020	UK/51/2020/0056
Cross Country	43	43321	A	27/10/2020	UK/51/2020/0056
Cross Country	43	43357	A	28/10/2020	UK/51/2020/0056
Cross Country	43	43366	A	06/11/2020	UK/51/2020/0056
Cross Country	43	43378	A	02/11/2020	UK/51/2020/0056
Cross Country	43	43384	A	28/10/2020	UK/51/2020/0056
Devon & Cornwall	56	56091	A	06/11/2020	UK/51/2020/0063
Devon & Cornwall	56	56103	A	27/10/2020	UK/51/2020/0063
Devon & Cornwall	60	60028	A	28/10/2020	UK/51/2020/0064
Devon & Cornwall	60	60029	A	27/10/2020	UK/51/2020/0064
Devon & Cornwall	60	60046	A	29/10/2020	UK/51/2020/0064
Devon & Cornwall	60	60055	A	28/10/2020	UK/51/2020/0064
GB Railfreight	66	66702	A	03/11/2020	UK/51/2020/0001
GB Railfreight	66	66739	A	06/11/2020	UK/51/2020/0001
Great Western Railway	08	08836	A	02/11/2020	UK/51/2020/0065
Great Western Railway	166	166216	A	11/11/2020	UK/51/2020/0066
Great Western Railway	166	166216	B	12/11/2020	UK/51/2020/0066
Great Western Railway	43	43005	A	09/11/2020	UK/51/2020/0056
Great Western Railway	43	43009	A	06/11/2020	UK/51/2020/0056
Great Western Railway	43	43027	A	06/11/2020	UK/51/2020/0056
Great Western Railway	43	43088	A	05/11/2020	UK/51/2020/0056
Great Western Railway	43	43092	A	22/10/2020	UK/51/2020/0056
Great Western Railway	43	43094	A	22/10/2020	UK/51/2020/0056
Great Western Railway	43	43122	A	20/10/2020	UK/51/2020/0056
Great Western Railway	43	43153	A	26/10/2020	UK/51/2020/0056
Great Western Railway	43	43155	A	26/10/2020	UK/51/2020/0056

Great Western Railway	43	43160	A	29/10/2020	UK/51/2020/0056
Great Western Railway	43	43170	A	22/10/2020	UK/51/2020/0056
Great Western Railway	43	43171	A	19/10/2020	UK/51/2020/0056
Great Western Railway	43	43172	A	19/10/2020	UK/51/2020/0056
Great Western Railway	43	43188	A	12/11/2020	UK/51/2020/0056
Great Western Railway	43	43189	A	05/11/2020	UK/51/2020/0056
Great Western Railway	43	43192	A	10/11/2020	UK/51/2020/0056
Great Western Railway	43	43194	A	10/11/2020	UK/51/2020/0056
Greater Anglia	317	317343	A	03/11/2020	UK/51/2020/0067
Greater Anglia	317	317343	B	03/11/2020	UK/51/2020/0067
Greater Anglia	317	317506	A	02/11/2020	UK/51/2020/0067
Greater Anglia	317	317506	B	02/11/2020	UK/51/2020/0067
Greater Anglia	317	317881	A	09/11/2020	UK/51/2020/0067
Greater Anglia	317	317881	B	09/11/2020	UK/51/2020/0067
Greater Anglia	317	317884	A	13/11/2020	UK/51/2020/0067
Greater Anglia	317	317884	B	13/11/2020	UK/51/2020/0067
Greater Anglia	321	321308	A	09/11/2020	UK/51/2020/0068
Greater Anglia	321	321308	B	09/11/2020	UK/51/2020/0068
Greater Anglia	321	321310	A	03/11/2020	UK/51/2020/0068
Greater Anglia	321	321310	B	03/11/2020	UK/51/2020/0068
Greater Anglia	321	321312	A	11/11/2020	UK/51/2020/0068
Greater Anglia	321	321312	B	11/11/2020	UK/51/2020/0068
Greater Anglia	321	321319	A	10/11/2020	UK/51/2020/0068
Greater Anglia	321	321319	B	10/11/2020	UK/51/2020/0068
Greater Anglia	321	321330	A	11/11/2020	UK/51/2020/0068
Greater Anglia	321	321330	B	11/11/2020	UK/51/2020/0068
HANSON TRACTION	50	50008	A	03/11/2020	UK/51/2020/0069
Merseyrail	507	507029	A	10/11/2020	UK/51/2020/0011
Merseyrail	507	507029	B	10/11/2020	UK/51/2020/0011
Network Rail	009	009703	A	02/11/2020	UK/51/2020/0057
Network Rail	073	073111	A	28/10/2020	UK/51/2020/0018
Network Rail	073	073111	B	28/10/2020	UK/51/2020/0018
Network Rail	073	073115	A	22/10/2020	UK/51/2020/0018
Network Rail	073	073115	B	22/10/2020	UK/51/2020/0018
Network Rail	073	073121	A	21/10/2020	UK/51/2020/0018
Network Rail	073	073121	B	21/10/2020	UK/51/2020/0018
Network Rail	077	077903	A	28/10/2020	UK/51/2020/0019
Network Rail	077	077903	B	28/10/2020	UK/51/2020/0019
Network Rail	077	077905	A	22/10/2020	UK/51/2020/0019

Network Rail	077	077905	B	22/10/2020	UK/51/2020/0019
Network Rail	079	079241	A	26/10/2020	UK/51/2020/0070
Network Rail	079	079247	B	26/10/2020	UK/51/2020/0070
Network Rail	079	079251	A	03/11/2020	UK/51/2020/0070
Network Rail	079	079257	B	03/11/2020	UK/51/2020/0070
Network Rail	079	079262	A	29/10/2020	UK/51/2020/0070
Network Rail	079	079263	A	27/10/2020	UK/51/2020/0070
Network Rail	079	079272	A	29/10/2020	UK/51/2020/0070
Network Rail	079	079273	A	27/10/2020	UK/51/2020/0070
Network Rail	079	079277	A	19/10/2020	UK/51/2020/0070
Network Rail	079	079301	A	30/10/2020	UK/51/2020/0070
Network Rail	079	079304	B	30/10/2020	UK/51/2020/0070
Network Rail	079	079401	A	23/10/2020	UK/51/2020/0070
Network Rail	079	079404	B	23/10/2020	UK/51/2020/0070
Network Rail	079	079501	A	04/11/2020	UK/51/2020/0070
Network Rail	079	079507	B	04/11/2020	UK/51/2020/0070
Network Rail	73	73138	A	24/10/2020	UK/51/2020/0018
Network Rail	73	73138	B	24/10/2020	UK/51/2020/0018
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South Western Railway	442	442413	A	29/10/2020	UK/51/2020/0046
South Western Railway	442	442413	B	29/10/2020	UK/51/2020/0046
South Western Railway	442	442414	A	30/10/2020	UK/51/2020/0046
South Western Railway	442	442414	B	30/10/2020	UK/51/2020/0046
South Western Railway	442	442415	A	28/10/2020	UK/51/2020/0046
South Western Railway	442	442415	B	28/10/2020	UK/51/2020/0046
South Western Railway	442	442418	A	26/10/2020	UK/51/2020/0046
South Western Railway	442	442418	B	26/10/2020	UK/51/2020/0046
South Western Railway	442	442422	A	29/10/2020	UK/51/2020/0046
South Western Railway	442	442422	B	29/10/2020	UK/51/2020/0046
South Western Railway	444	444003	A	30/10/2020	UK/51/2020/0058
South Western Railway	444	444003	B	30/10/2020	UK/51/2020/0058
South Western Railway	444	444006	A	18/10/2020	UK/51/2020/0058
South Western Railway	444	444006	B	18/10/2020	UK/51/2020/0058
South Western Railway	444	444007	A	25/10/2020	UK/51/2020/0058
South Western Railway	444	444007	B	25/10/2020	UK/51/2020/0058
South Western Railway	444	444008	A	01/11/2020	UK/51/2020/0058
South Western Railway	444	444008	B	01/11/2020	UK/51/2020/0058
South Western Railway	444	444009	A	11/11/2020	UK/51/2020/0058

South Western Railway	444	444009	B	11/11/2020	UK/51/2020/0058
South Western Railway	444	444010	A	29/10/2020	UK/51/2020/0058
South Western Railway	444	444010	B	29/10/2020	UK/51/2020/0058
South Western Railway	444	444014	A	08/11/2020	UK/51/2020/0058
South Western Railway	444	444014	B	08/11/2020	UK/51/2020/0058
South Western Railway	444	444016	A	13/11/2020	UK/51/2020/0058
South Western Railway	444	444016	B	13/11/2020	UK/51/2020/0058
South Western Railway	444	444022	A	05/11/2020	UK/51/2020/0058
South Western Railway	444	444022	B	05/11/2020	UK/51/2020/0058
South Western Railway	444	444028	A	14/11/2020	UK/51/2020/0058
South Western Railway	444	444028	B	14/11/2020	UK/51/2020/0058
South Western Railway	444	444029	A	23/10/2020	UK/51/2020/0058
South Western Railway	444	444029	B	23/10/2020	UK/51/2020/0058
South Western Railway	444	444030	A	30/10/2020	UK/51/2020/0058
South Western Railway	444	444030	B	30/10/2020	UK/51/2020/0058
South Western Railway	444	444031	A	01/11/2020	UK/51/2020/0058
South Western Railway	444	444031	B	01/11/2020	UK/51/2020/0058
South Western Railway	444	444034	A	06/11/2020	UK/51/2020/0058
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South Western Railway	444	444036	A	01/11/2020	UK/51/2020/0058
South Western Railway	444	444036	B	01/11/2020	UK/51/2020/0058
South Western Railway	444	444037	A	30/10/2020	UK/51/2020/0058
South Western Railway	444	444037	B	30/10/2020	UK/51/2020/0058
South Western Railway	444	444040	A	28/10/2020	UK/51/2020/0058
South Western Railway	444	444040	B	28/10/2020	UK/51/2020/0058
South Western Railway	444	444041	A	11/11/2020	UK/51/2020/0058
South Western Railway	444	444041	B	11/11/2020	UK/51/2020/0058
South Western Railway	444	444042	A	06/11/2020	UK/51/2020/0058
South Western Railway	444	444042	B	06/11/2020	UK/51/2020/0058
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South Western Railway	450	450002	B	25/10/2020	UK/51/2020/0059
South Western Railway	450	450003	A	31/10/2020	UK/51/2020/0059
South Western Railway	450	450003	B	31/10/2020	UK/51/2020/0059
South Western Railway	450	450009	A	05/11/2020	UK/51/2020/0059
South Western Railway	450	450009	B	05/11/2020	UK/51/2020/0059
South Western Railway	450	450012	A	10/11/2020	UK/51/2020/0059
South Western Railway	450	450012	B	10/11/2020	UK/51/2020/0059
South Western Railway	450	450015	A	23/10/2020	UK/51/2020/0059
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South Western Railway	450	450019	A	08/11/2020	UK/51/2020/0059
South Western Railway	450	450019	B	08/11/2020	UK/51/2020/0059
South Western Railway	450	450026	A	31/10/2020	UK/51/2020/0059
South Western Railway	450	450026	B	31/10/2020	UK/51/2020/0059
South Western Railway	450	450028	A	18/10/2020	UK/51/2020/0059
South Western Railway	450	450028	B	18/10/2020	UK/51/2020/0059
South Western Railway	450	450030	A	10/11/2020	UK/51/2020/0059
South Western Railway	450	450030	B	10/11/2020	UK/51/2020/0059
South Western Railway	450	450032	A	06/11/2020	UK/51/2020/0059
South Western Railway	450	450032	B	06/11/2020	UK/51/2020/0059
South Western Railway	450	450034	A	07/11/2020	UK/51/2020/0059
South Western Railway	450	450034	B	07/11/2020	UK/51/2020/0059
South Western Railway	450	450035	A	12/11/2020	UK/51/2020/0059
South Western Railway	450	450035	B	22/10/2020	UK/51/2020/0059
South Western Railway	450	450036	A	28/10/2020	UK/51/2020/0059
South Western Railway	450	450036	B	28/10/2020	UK/51/2020/0059
South Western Railway	450	450045	A	20/10/2020	UK/51/2020/0059
South Western Railway	450	450045	B	20/10/2020	UK/51/2020/0059
South Western Railway	450	450047	A	04/11/2020	UK/51/2020/0059
South Western Railway	450	450047	B	04/11/2020	UK/51/2020/0059
South Western Railway	450	450050	A	02/11/2020	UK/51/2020/0059
South Western Railway	450	450050	B	02/11/2020	UK/51/2020/0059
South Western Railway	450	450053	A	19/10/2020	UK/51/2020/0059
South Western Railway	450	450053	B	19/10/2020	UK/51/2020/0059
South Western Railway	450	450058	A	25/10/2020	UK/51/2020/0059
South Western Railway	450	450058	B	25/10/2020	UK/51/2020/0059
South Western Railway	450	450061	A	20/10/2020	UK/51/2020/0059
South Western Railway	450	450061	B	20/10/2020	UK/51/2020/0059
South Western Railway	450	450064	A	14/11/2020	UK/51/2020/0059
South Western Railway	450	450064	B	14/11/2020	UK/51/2020/0059
South Western Railway	450	450066	A	05/11/2020	UK/51/2020/0059
South Western Railway	450	450066	B	05/11/2020	UK/51/2020/0059
South Western Railway	450	450067	A	04/11/2020	UK/51/2020/0059
South Western Railway	450	450067	B	04/11/2020	UK/51/2020/0059
South Western Railway	450	450068	A	02/11/2020	UK/51/2020/0059
South Western Railway	450	450068	B	02/11/2020	UK/51/2020/0059
South Western Railway	450	450070	A	21/10/2020	UK/51/2020/0059
South Western Railway	450	450070	B	21/10/2020	UK/51/2020/0059
South Western Railway	450	450076	A	11/11/2020	UK/51/2020/0059

South Western Railway	450	450076	B	11/11/2020	UK/51/2020/0059
South Western Railway	450	450079	A	31/10/2020	UK/51/2020/0059
South Western Railway	450	450079	B	31/10/2020	UK/51/2020/0059
South Western Railway	450	450080	A	08/11/2020	UK/51/2020/0059
South Western Railway	450	450080	B	08/11/2020	UK/51/2020/0059
South Western Railway	450	450082	A	21/10/2020	UK/51/2020/0059
South Western Railway	450	450082	B	21/10/2020	UK/51/2020/0059
South Western Railway	450	450086	A	21/10/2020	UK/51/2020/0059
South Western Railway	450	450086	B	21/10/2020	UK/51/2020/0059
South Western Railway	450	450089	A	29/10/2020	UK/51/2020/0059
South Western Railway	450	450089	B	29/10/2020	UK/51/2020/0059
South Western Railway	450	450092	A	12/11/2020	UK/51/2020/0059
South Western Railway	450	450092	B	12/11/2020	UK/51/2020/0059
South Western Railway	450	450093	A	31/10/2020	UK/51/2020/0059
South Western Railway	450	450093	B	31/10/2020	UK/51/2020/0059
South Western Railway	450	450094	A	03/11/2020	UK/51/2020/0059
South Western Railway	450	450094	B	03/11/2020	UK/51/2020/0059
South Western Railway	450	450096	A	07/11/2020	UK/51/2020/0059
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South Western Railway	450	450102	A	23/10/2020	UK/51/2020/0059
South Western Railway	450	450102	B	23/10/2020	UK/51/2020/0059
South Western Railway	450	450104	A	25/10/2020	UK/51/2020/0059
South Western Railway	450	450104	B	25/10/2020	UK/51/2020/0059
South Western Railway	450	450106	A	19/10/2020	UK/51/2020/0059
South Western Railway	450	450106	B	19/10/2020	UK/51/2020/0059
South Western Railway	450	450107	A	03/11/2020	UK/51/2020/0059
South Western Railway	450	450107	B	03/11/2020	UK/51/2020/0059
South Western Railway	450	450113	A	12/11/2020	UK/51/2020/0059
South Western Railway	450	450113	B	12/11/2020	UK/51/2020/0059
South Western Railway	450	450118	A	07/11/2020	UK/51/2020/0059
South Western Railway	450	450118	B	07/11/2020	UK/51/2020/0059
South Western Railway	450	450119	A	04/11/2020	UK/51/2020/0059
South Western Railway	450	450119	B	04/11/2020	UK/51/2020/0059
South Western Railway	450	450121	A	10/11/2020	UK/51/2020/0059
South Western Railway	450	450121	B	10/11/2020	UK/51/2020/0059
Southeastern	375	375303	A	03/11/2020	UK/51/2020/0035
Southeastern	375	375303	B	03/11/2020	UK/51/2020/0035
Southeastern	375	375305	A	10/11/2020	UK/51/2020/0035
Southeastern	375	375305	B	10/11/2020	UK/51/2020/0035



Southeastern	375	375605	A	14/11/2020	UK/51/2020/0035
Southeastern	375	375605	B	14/11/2020	UK/51/2020/0035
Southeastern	375	375608	A	11/11/2020	UK/51/2020/0035
Southeastern	375	375608	B	11/11/2020	UK/51/2020/0035
Southeastern	375	375617	A	21/10/2020	UK/51/2020/0035
Southeastern	375	375617	B	21/10/2020	UK/51/2020/0035
Southeastern	375	375618	A	08/11/2020	UK/51/2020/0035
Southeastern	375	375618	B	08/11/2020	UK/51/2020/0035
Southeastern	375	375624	A	19/10/2020	UK/51/2020/0035
Southeastern	375	375624	B	19/10/2020	UK/51/2020/0035
Southeastern	375	375709	A	08/11/2020	UK/51/2020/0035
Southeastern	375	375709	B	08/11/2020	UK/51/2020/0035
Southeastern	375	375809	A	04/11/2020	UK/51/2020/0035
Southeastern	375	375809	B	04/11/2020	UK/51/2020/0035
Southeastern	375	375812	A	05/11/2020	UK/51/2020/0035
Southeastern	375	375812	B	05/11/2020	UK/51/2020/0035
Southeastern	375	375813	A	09/11/2020	UK/51/2020/0035
Southeastern	375	375813	B	09/11/2020	UK/51/2020/0035
Southeastern	375	375818	A	24/10/2020	UK/51/2020/0035
Southeastern	375	375818	B	24/10/2020	UK/51/2020/0035
Southeastern	375	375819	A	22/10/2020	UK/51/2020/0035
Southeastern	375	375819	B	22/10/2020	UK/51/2020/0035
Southeastern	375	375824	A	22/10/2020	UK/51/2020/0035
Southeastern	375	375824	B	22/10/2020	UK/51/2020/0035
Southeastern	375	375827	A	03/11/2020	UK/51/2020/0035
Southeastern	375	375827	B	03/11/2020	UK/51/2020/0035
Southeastern	375	375904	A	07/11/2020	UK/51/2020/0035
Southeastern	375	375904	B	07/11/2020	UK/51/2020/0035
Southeastern	375	375905	A	20/10/2020	UK/51/2020/0035
Southeastern	375	375905	B	20/10/2020	UK/51/2020/0035
Southeastern	375	375915	A	30/10/2020	UK/51/2020/0035
Southeastern	375	375918	A	23/10/2020	UK/51/2020/0035
Southeastern	375	375918	B	23/10/2020	UK/51/2020/0035
Southeastern	376	376002	A	30/10/2020	UK/51/2020/0036
Southeastern	376	376002	B	30/10/2020	UK/51/2020/0036
Southeastern	376	376017	A	11/11/2020	UK/51/2020/0036
Southeastern	376	376017	B	11/11/2020	UK/51/2020/0036
Southeastern	376	376018	A	10/11/2020	UK/51/2020/0036
Southeastern	376	376018	B	10/11/2020	UK/51/2020/0036

Southeastern	376	376024	A	04/11/2020	UK/51/2020/0036
Southeastern	376	376024	B	04/11/2020	UK/51/2020/0036
Southeastern	376	376030	A	06/11/2020	UK/51/2020/0036
Southeastern	376	376030	B	06/11/2020	UK/51/2020/0036
Southeastern	376	376031	A	07/11/2020	UK/51/2020/0036
Southeastern	376	376031	B	07/11/2020	UK/51/2020/0036
Southeastern	376	376033	A	01/11/2020	UK/51/2020/0036
Southeastern	376	376033	B	01/11/2020	UK/51/2020/0036
Southeastern	465	465004	A	04/11/2020	UK/51/2020/0037
Southeastern	465	465004	B	04/11/2020	UK/51/2020/0037
Southeastern	465	465009	A	02/11/2020	UK/51/2020/0037
Southeastern	465	465009	B	02/11/2020	UK/51/2020/0037
Southeastern	465	465016	A	03/11/2020	UK/51/2020/0037
Southeastern	465	465016	B	03/11/2020	UK/51/2020/0037
Southeastern	465	465019	A	13/11/2020	UK/51/2020/0037
Southeastern	465	465019	B	13/11/2020	UK/51/2020/0037
Southeastern	465	465032	A	22/10/2020	UK/51/2020/0037
Southeastern	465	465032	B	22/10/2020	UK/51/2020/0037
Southeastern	465	465048	A	21/10/2020	UK/51/2020/0037
Southeastern	465	465048	B	21/10/2020	UK/51/2020/0037
Southeastern	465	465152	A	04/11/2020	UK/51/2020/0037
Southeastern	465	465152	B	04/11/2020	UK/51/2020/0037
Southeastern	465	465153	A	20/10/2020	UK/51/2020/0037
Southeastern	465	465153	B	20/10/2020	UK/51/2020/0037
Southeastern	465	465158	A	11/11/2020	UK/51/2020/0037
Southeastern	465	465158	B	11/11/2020	UK/51/2020/0037
Southeastern	465	465160	A	24/10/2020	UK/51/2020/0037
Southeastern	465	465160	B	24/10/2020	UK/51/2020/0037
Southeastern	465	465163	A	22/10/2020	UK/51/2020/0037
Southeastern	465	465163	B	22/10/2020	UK/51/2020/0037
Southeastern	465	465164	A	13/11/2020	UK/51/2020/0037
Southeastern	465	465164	B	13/11/2020	UK/51/2020/0037
Southeastern	465	465167	A	10/11/2020	UK/51/2020/0037
Southeastern	465	465167	B	10/11/2020	UK/51/2020/0037
Southeastern	465	465173	A	21/10/2020	UK/51/2020/0037
Southeastern	465	465173	B	21/10/2020	UK/51/2020/0037
Southeastern	465	465177	A	03/11/2020	UK/51/2020/0037
Southeastern	465	465177	B	03/11/2020	UK/51/2020/0037
Southeastern	465	465182	A	19/10/2020	UK/51/2020/0037

Southeastern	465	465182	B	19/10/2020	UK/51/2020/0037
Southeastern	465	465192	A	12/11/2020	UK/51/2020/0037
Southeastern	465	465192	B	12/11/2020	UK/51/2020/0037
Southeastern	465	465236	A	31/10/2020	UK/51/2020/0037
Southeastern	465	465236	B	31/10/2020	UK/51/2020/0037
Southeastern	465	465237	A	01/11/2020	UK/51/2020/0037
Southeastern	465	465237	B	01/11/2020	UK/51/2020/0037
Southeastern	465	465250	A	05/11/2020	UK/51/2020/0037
Southeastern	465	465250	B	05/11/2020	UK/51/2020/0037
Southeastern	465	465908	A	20/10/2020	UK/51/2020/0037
Southeastern	465	465908	B	20/10/2020	UK/51/2020/0037
Southeastern	465	465909	B	30/10/2020	UK/51/2020/0037
Southeastern	465	465922	A	09/11/2020	UK/51/2020/0037
Southeastern	465	465922	B	09/11/2020	UK/51/2020/0037
Southeastern	465	465927	A	06/11/2020	UK/51/2020/0037
Southeastern	465	465927	B	06/11/2020	UK/51/2020/0037
Southeastern	465	465931	A	31/10/2020	UK/51/2020/0037
Southeastern	465	465931	B	31/10/2020	UK/51/2020/0037
Southeastern	465	465932	A	21/10/2020	UK/51/2020/0037
Southeastern	465	465932	B	21/10/2020	UK/51/2020/0037
Southeastern	466	466003	A	11/11/2020	UK/51/2020/0041
Southeastern	466	466003	B	11/11/2020	UK/51/2020/0041
Southeastern	466	466017	A	30/10/2020	UK/51/2020/0041
Southeastern	466	466017	B	30/10/2020	UK/51/2020/0041
Southeastern	466	466029	A	26/10/2020	UK/51/2020/0041
Southeastern	466	466029	B	26/10/2020	UK/51/2020/0041
Southeastern	466	466032	A	27/10/2020	UK/51/2020/0041
Southeastern	466	466032	B	27/10/2020	UK/51/2020/0041
Southeastern	466	466034	A	28/10/2020	UK/51/2020/0041
Southeastern	466	466034	B	28/10/2020	UK/51/2020/0041
Southeastern	466	466037	A	24/10/2020	UK/51/2020/0041
Southeastern	466	466037	B	24/10/2020	UK/51/2020/0041
Southeastern	466	466039	A	18/10/2020	UK/51/2020/0041
Southeastern	466	466039	B	18/10/2020	UK/51/2020/0041
Southeastern	466	466041	A	05/11/2020	UK/51/2020/0041
Southeastern	466	466041	B	05/11/2020	UK/51/2020/0041
Southeastern	466	466042	A	29/10/2020	UK/51/2020/0041
Southeastern	466	466042	B	29/10/2020	UK/51/2020/0041
Southeastern	466	466043	A	05/11/2020	UK/51/2020/0041

Southeastern	466	466043	B	05/11/2020	UK/51/2020/0041
UK Rail Leasing	56	56301	A	06/11/2020	UK/51/2020/0063
West Midlands Trains	319	319005	B	20/10/2020	UK/51/2020/0053
West Midlands Trains	319	319215	A	18/10/2020	UK/51/2020/0053
West Midlands Trains	319	319215	B	18/10/2020	UK/51/2020/0053
West Midlands Trains	319	319457	A	22/10/2020	UK/51/2020/0053
West Midlands Trains	319	319457	B	22/10/2020	UK/51/2020/0053
West Midlands Trains	350	350106	A	29/10/2020	UK/51/2020/0026
West Midlands Trains	350	350106	B	29/10/2020	UK/51/2020/0026
West Midlands Trains	350	350107	A	30/10/2020	UK/51/2020/0026
West Midlands Trains	350	350107	B	30/10/2020	UK/51/2020/0026
West Midlands Trains	350	350110	A	01/11/2020	UK/51/2020/0026
West Midlands Trains	350	350110	B	01/11/2020	UK/51/2020/0026
West Midlands Trains	350	350120	A	31/10/2020	UK/51/2020/0026
West Midlands Trains	350	350120	B	31/10/2020	UK/51/2020/0026
West Midlands Trains	350	350121	A	08/11/2020	UK/51/2020/0026
West Midlands Trains	350	350121	B	08/11/2020	UK/51/2020/0026
West Midlands Trains	350	350239	A	24/10/2020	UK/51/2020/0026
West Midlands Trains	350	350239	B	24/10/2020	UK/51/2020/0026
West Midlands Trains	350	350242	A	18/10/2020	UK/51/2020/0026
West Midlands Trains	350	350242	B	18/10/2020	UK/51/2020/0026
West Midlands Trains	350	350250	A	24/10/2020	UK/51/2020/0026
West Midlands Trains	350	350250	B	24/10/2020	UK/51/2020/0026
West Midlands Trains	350	350258	A	14/11/2020	UK/51/2020/0026
West Midlands Trains	350	350258	B	14/11/2020	UK/51/2020/0026
West Midlands Trains	350	350262	A	18/10/2020	UK/51/2020/0026
West Midlands Trains	350	350262	B	18/10/2020	UK/51/2020/0026
West Midlands Trains	350	350369	A	07/11/2020	UK/51/2020/0026
West Midlands Trains	350	350369	B	07/11/2020	UK/51/2020/0026
West Midlands Trains	350	350377	A	22/10/2020	UK/51/2020/0026
West Midlands Trains	350	350377	B	23/10/2020	UK/51/2020/0026

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

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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.