

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

Your Ref : OP158365
R00010

Case Ref : PRM-IOP-0333

EIN Number : As listed

Date: 10th November 2020

Contact: Adam Buckland

2nd 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 2nd 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
Arriva Rail London	378	378201	A	29/09/2020	UK/51/2020/0039
Arriva Rail London	378	378201	B	29/09/2020	UK/51/2020/0039
Arriva Rail London	378	378202	B	30/09/2020	UK/51/2020/0039
Arriva Rail London	378	378202	A	30/09/2020	UK/51/2020/0039
Arriva Rail London	378	378203	A	01/10/2020	UK/51/2020/0039
Arriva Rail London	378	378203	B	01/10/2020	UK/51/2020/0039
Arriva Rail London	378	378216	B	28/09/2020	UK/51/2020/0039
Arriva Rail London	378	378216	A	28/09/2020	UK/51/2020/0039
Arriva Rail London	378	378217	A	20/09/2020	UK/51/2020/0039
Arriva Rail London	378	378217	B	20/09/2020	UK/51/2020/0039
Arriva Rail London	378	378257	A	24/09/2020	UK/51/2020/0039
Arriva Rail London	378	378257	B	24/09/2020	UK/51/2020/0039
Balfour Beatty	075	075408	A	01/10/2020	UK/51/2020/0016
Balfour Beatty	075	075408	B	01/10/2020	UK/51/2020/0016
Balfour Beatty	098	098215	B	25/09/2020	UK/51/2020/0022
Balfour Beatty	098	098215	A	25/09/2020	UK/51/2020/0022
Balfour Beatty	098	098217	B	02/10/2020	UK/51/2020/0022
Balfour Beatty	098	098217	A	02/10/2020	UK/51/2020/0022
Chiltern Railways	165	165005	B	20/09/2020	UK/51/2020/0042
Chiltern Railways	165	165005	A	20/09/2020	UK/51/2020/0042
Chiltern Railways	165	165006	A	07/10/2020	UK/51/2020/0042
Chiltern Railways	165	165006	B	07/10/2020	UK/51/2020/0042
Chiltern Railways	165	165038	A	25/09/2020	UK/51/2020/0042
Chiltern Railways	165	165038	B	25/09/2020	UK/51/2020/0042
Chiltern Railways	168	168110	B	09/10/2020	UK/51/2020/0043
Chiltern Railways	168	168110	A	09/10/2020	UK/51/2020/0043
Chiltern Railways	168	168111	A	05/10/2020	UK/51/2020/0043
Chiltern Railways	168	168111	B	06/10/2020	UK/51/2020/0043
Chiltern Railways	168	168214	A	09/10/2020	UK/51/2020/0043
Chiltern Railways	168	168214	B	09/10/2020	UK/51/2020/0043
Chiltern Railways	168	168218	A	22/09/2020	UK/51/2020/0043
Chiltern Railways	168	168218	B	22/09/2020	UK/51/2020/0043

Chiltern Railways	168	168321	A	20/09/2020	UK/51/2020/0043
Chiltern Railways	168	168321	B	20/09/2020	UK/51/2020/0043
Chiltern Railways	168	168325	B	24/09/2020	UK/51/2020/0043
Chiltern Railways	168	168325	A	24/09/2020	UK/51/2020/0043
Chiltern Railways	168	168326	A	23/09/2020	UK/51/2020/0043
Chiltern Railways	168	168326	B	23/09/2020	UK/51/2020/0043
Chiltern Railways	172	172103	A	30/09/2020	UK/51/2020/0029
Chiltern Railways	82	82301	A	29/09/2020	UK/51/2020/0044
Chiltern Railways	82	82302	A	07/10/2020	UK/51/2020/0044
Chiltern Railways	82	82303	A	01/10/2020	UK/51/2020/0044
Chiltern Railways	82	82304	A	28/09/2020	UK/51/2020/0044
Chiltern Railways	82	82309	A	02/10/2020	UK/51/2020/0044
Colas Rail	073	073913	A	10/10/2020	UK/51/2020/0018
Colas Rail	073	073913	B	10/10/2020	UK/51/2020/0018
Colas Rail	075	075406	A	12/10/2020	UK/51/2020/0016
Colas Rail	075	075406	B	12/10/2020	UK/51/2020/0016
Colas Rail	077	077901	B	12/10/2020	UK/51/2020/0019
Colas Rail	077	077901	A	12/10/2020	UK/51/2020/0019
Crossrail	315	315833	B	08/10/2020	UK/51/2020/0030
Crossrail	315	315833	A	08/10/2020	UK/51/2020/0030
Great Western Railway	43	43016	A	15/10/2020	UK/51/2020/0056
Great Western Railway	43	43041	A	14/10/2020	UK/51/2020/0056
Great Western Railway	43	43154	A	16/10/2020	UK/51/2020/0056
Great Western Railway	43	43156	A	14/10/2020	UK/51/2020/0056
Great Western Railway	43	43158	A	14/10/2020	UK/51/2020/0056
Network Rail	009	009702	A	06/10/2020	UK/51/2020/0057
Network Rail	009	009708	A	06/10/2020	UK/51/2020/0057
Network Rail	073	073113	B	16/10/2020	UK/51/2020/0018
Network Rail	073	073113	A	16/10/2020	UK/51/2020/0018
Network Rail	073	073118	A	15/10/2020	UK/51/2020/0018
Network Rail	073	073118	B	15/10/2020	UK/51/2020/0018
Network Rail	073	073122	A	08/10/2020	UK/51/2020/0018
Network Rail	073	073122	B	08/10/2020	UK/51/2020/0018
Network Rail	077	077010	A	08/10/2020	UK/51/2020/0019
Network Rail	077	077010	B	08/10/2020	UK/51/2020/0019
Network Rail	077	077909	A	14/10/2020	UK/51/2020/0019
Network Rail	077	077909	B	14/10/2020	UK/51/2020/0019
Network Rail	098	098924	A	09/10/2020	UK/51/2020/0022
Network Rail	43	43013	A	16/10/2020	UK/51/2020/0056

Network Rail	73	73951	A	23/09/2020	UK/51/2020/0018
Network Rail	73	73952	A	22/09/2020	UK/51/2020/0018
Network Rail	82	82111	A	16/10/2020	UK/51/2020/0044
Network Rail	82	82124	A	17/10/2020	UK/51/2020/0044
South Western Railway	444	444001	B	09/10/2020	UK/51/2020/0058
South Western Railway	444	444001	A	09/10/2020	UK/51/2020/0058
South Western Railway	444	444002	B	01/10/2020	UK/51/2020/0058
South Western Railway	444	444002	A	01/10/2020	UK/51/2020/0058
South Western Railway	444	444004	B	05/10/2020	UK/51/2020/0058
South Western Railway	444	444004	A	05/10/2020	UK/51/2020/0058
South Western Railway	444	444017	B	08/10/2020	UK/51/2020/0058
South Western Railway	444	444017	A	08/10/2020	UK/51/2020/0058
South Western Railway	444	444020	B	15/10/2020	UK/51/2020/0058
South Western Railway	444	444020	A	15/10/2020	UK/51/2020/0058
South Western Railway	444	444021	A	12/10/2020	UK/51/2020/0058
South Western Railway	444	444021	B	12/10/2020	UK/51/2020/0058
South Western Railway	444	444023	A	07/10/2020	UK/51/2020/0058
South Western Railway	444	444023	B	07/10/2020	UK/51/2020/0058
South Western Railway	444	444026	B	06/10/2020	UK/51/2020/0058
South Western Railway	444	444026	A	06/10/2020	UK/51/2020/0058
South Western Railway	444	444027	A	05/10/2020	UK/51/2020/0058
South Western Railway	444	444027	B	05/10/2020	UK/51/2020/0058
South Western Railway	444	444032	B	14/10/2020	UK/51/2020/0058
South Western Railway	444	444032	A	14/10/2020	UK/51/2020/0058
South Western Railway	444	444033	A	13/10/2020	UK/51/2020/0058
South Western Railway	444	444033	B	13/10/2020	UK/51/2020/0058
South Western Railway	444	444035	B	16/10/2020	UK/51/2020/0058
South Western Railway	444	444035	A	16/10/2020	UK/51/2020/0058
South Western Railway	444	444038	B	11/10/2020	UK/51/2020/0058
South Western Railway	444	444038	A	11/10/2020	UK/51/2020/0058
South Western Railway	444	444043	B	05/10/2020	UK/51/2020/0058
South Western Railway	444	444043	A	05/10/2020	UK/51/2020/0058
South Western Railway	444	444044	A	10/10/2020	UK/51/2020/0058
South Western Railway	444	444044	B	10/10/2020	UK/51/2020/0058
South Western Railway	444	444045	A	02/10/2020	UK/51/2020/0058
South Western Railway	444	444045	B	02/10/2020	UK/51/2020/0058
South Western Railway	450	450004	A	04/10/2020	UK/51/2020/0059
South Western Railway	450	450004	B	04/10/2020	UK/51/2020/0059
South Western Railway	450	450014	B	06/10/2020	UK/51/2020/0059

South Western Railway	450	450014	A	06/10/2020	UK/51/2020/0059
South Western Railway	450	450016	B	03/10/2020	UK/51/2020/0059
South Western Railway	450	450016	A	03/10/2020	UK/51/2020/0059
South Western Railway	450	450020	A	11/10/2020	UK/51/2020/0059
South Western Railway	450	450020	B	11/10/2020	UK/51/2020/0059
South Western Railway	450	450021	B	03/10/2020	UK/51/2020/0059
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South Western Railway	450	450029	B	04/10/2020	UK/51/2020/0059
South Western Railway	450	450029	A	04/10/2020	UK/51/2020/0059
South Western Railway	450	450044	B	08/10/2020	UK/51/2020/0059
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South Western Railway	450	450048	A	29/09/2020	UK/51/2020/0059
South Western Railway	450	450048	B	29/09/2020	UK/51/2020/0059
South Western Railway	450	450049	A	17/10/2020	UK/51/2020/0059
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South Western Railway	450	450091	B	14/10/2020	UK/51/2020/0059
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South Western Railway	450	450095	B	17/10/2020	UK/51/2020/0059
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South Western Railway	450	450099	A	09/10/2020	UK/51/2020/0059
South Western Railway	450	450099	B	09/10/2020	UK/51/2020/0059
South Western Railway	450	450108	B	15/10/2020	UK/51/2020/0059
South Western Railway	450	450108	A	15/10/2020	UK/51/2020/0059
South Western Railway	450	450122	B	07/10/2020	UK/51/2020/0059
South Western Railway	450	450122	A	07/10/2020	UK/51/2020/0059
South Western Railway	450	450125	A	30/09/2020	UK/51/2020/0059
South Western Railway	450	450125	B	30/09/2020	UK/51/2020/0059
South Western Railway	450	450127	B	01/10/2020	UK/51/2020/0059
South Western Railway	450	450127	A	01/10/2020	UK/51/2020/0059
South Western Railway	455	455702	B	22/09/2020	UK/51/2020/0010
South Western Railway	455	455702	A	22/09/2020	UK/51/2020/0010
South Western Railway	455	455703	A	23/09/2020	UK/51/2020/0010
South Western Railway	455	455703	B	23/09/2020	UK/51/2020/0010

South Western Railway	455	455713	B	28/09/2020	UK/51/2020/0010
South Western Railway	455	455713	A	28/09/2020	UK/51/2020/0010
South Western Railway	455	455720	A	27/09/2020	UK/51/2020/0010
South Western Railway	455	455720	B	27/09/2020	UK/51/2020/0010
South Western Railway	455	455725	A	06/10/2020	UK/51/2020/0010
South Western Railway	455	455725	B	06/10/2020	UK/51/2020/0010
South Western Railway	455	455728	B	29/09/2020	UK/51/2020/0010
South Western Railway	455	455728	A	29/09/2020	UK/51/2020/0010
South Western Railway	455	455731	A	27/09/2020	UK/51/2020/0010
South Western Railway	455	455731	B	27/09/2020	UK/51/2020/0010
South Western Railway	455	455732	A	23/09/2020	UK/51/2020/0010
South Western Railway	455	455732	B	23/09/2020	UK/51/2020/0010
South Western Railway	455	455736	B	26/09/2020	UK/51/2020/0010
South Western Railway	455	455736	A	26/09/2020	UK/51/2020/0010
South Western Railway	455	455856	B	04/10/2020	UK/51/2020/0010
South Western Railway	455	455856	A	04/10/2020	UK/51/2020/0010
South Western Railway	455	455861	B	21/09/2020	UK/51/2020/0010
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South Western Railway	455	455869	A	28/09/2020	UK/51/2020/0010
South Western Railway	455	455903	A	24/09/2020	UK/51/2020/0010
South Western Railway	455	455903	B	24/09/2020	UK/51/2020/0010
South Western Railway	455	455913	A	25/09/2020	UK/51/2020/0010
South Western Railway	455	455913	B	25/09/2020	UK/51/2020/0010
South Western Railway	456	456005	A	20/09/2020	UK/51/2020/0052
South Western Railway	456	456005	B	20/09/2020	UK/51/2020/0052
South Western Railway	456	456008	B	06/10/2020	UK/51/2020/0052
South Western Railway	456	456008	A	06/10/2020	UK/51/2020/0052
South Western Railway	456	456021	B	25/09/2020	UK/51/2020/0052
South Western Railway	456	456021	A	25/09/2020	UK/51/2020/0052
South Western Railway	456	456022	B	04/10/2020	UK/51/2020/0052
South Western Railway	456	456022	A	04/10/2020	UK/51/2020/0052
South Western Railway	456	456023	B	29/09/2020	UK/51/2020/0052
South Western Railway	456	456023	A	29/09/2020	UK/51/2020/0052
South Western Railway	456	456024	A	20/09/2020	UK/51/2020/0052
South Western Railway	456	456024	B	20/09/2020	UK/51/2020/0052
South Western Railway	458	458503	B	20/09/2020	UK/51/2020/0047
South Western Railway	458	458503	A	20/09/2020	UK/51/2020/0047
South Western Railway	458	458505	A	01/10/2020	UK/51/2020/0047

South Western Railway	458	458505	B	01/10/2020	UK/51/2020/0047
South Western Railway	458	458511	B	30/09/2020	UK/51/2020/0047
South Western Railway	458	458511	A	30/09/2020	UK/51/2020/0047
South Western Railway	458	458514	B	09/10/2020	UK/51/2020/0047
South Western Railway	458	458514	A	09/10/2020	UK/51/2020/0047
South Western Railway	458	458517	A	02/10/2020	UK/51/2020/0047
South Western Railway	458	458517	B	02/10/2020	UK/51/2020/0047
South Western Railway	458	458518	A	05/10/2020	UK/51/2020/0047
South Western Railway	458	458518	B	05/10/2020	UK/51/2020/0047
South Western Railway	458	458527	B	23/09/2020	UK/51/2020/0047
South Western Railway	458	458527	A	23/09/2020	UK/51/2020/0047
South Western Railway	458	458528	A	08/10/2020	UK/51/2020/0047
South Western Railway	458	458528	B	08/10/2020	UK/51/2020/0047
South Western Railway	458	458535	B	08/10/2020	UK/51/2020/0047
South Western Railway	458	458535	A	08/10/2020	UK/51/2020/0047
South Western Railway	701	701016	B	11/10/2020	UK/51/2020/0060
Southeastern	375	375301	A	15/10/2020	UK/51/2020/0035
Southeastern	375	375301	B	15/10/2020	UK/51/2020/0035
Southeastern	375	375304	A	16/10/2020	UK/51/2020/0035
Southeastern	375	375304	B	16/10/2020	UK/51/2020/0035
Southeastern	375	375308	A	01/10/2020	UK/51/2020/0035
Southeastern	375	375308	B	01/10/2020	UK/51/2020/0035
Southeastern	375	375603	A	23/09/2020	UK/51/2020/0035
Southeastern	375	375603	B	23/09/2020	UK/51/2020/0035
Southeastern	375	375609	A	28/09/2020	UK/51/2020/0035
Southeastern	375	375609	B	28/09/2020	UK/51/2020/0035
Southeastern	375	375619	A	13/10/2020	UK/51/2020/0035
Southeastern	375	375619	B	13/10/2020	UK/51/2020/0035
Southeastern	375	375621	B	02/10/2020	UK/51/2020/0035
Southeastern	375	375621	A	02/10/2020	UK/51/2020/0035
Southeastern	375	375630	B	28/09/2020	UK/51/2020/0035
Southeastern	375	375630	A	28/09/2020	UK/51/2020/0035
Southeastern	375	375701	B	23/09/2020	UK/51/2020/0035
Southeastern	375	375701	A	23/09/2020	UK/51/2020/0035
Southeastern	375	375702	B	06/10/2020	UK/51/2020/0035
Southeastern	375	375702	A	06/10/2020	UK/51/2020/0035
Southeastern	375	375714	A	14/10/2020	UK/51/2020/0035
Southeastern	375	375715	B	05/10/2020	UK/51/2020/0035
Southeastern	375	375715	A	05/10/2020	UK/51/2020/0035

Southeastern	375	375806	B	29/09/2020	UK/51/2020/0035
Southeastern	375	375806	A	29/09/2020	UK/51/2020/0035
Southeastern	375	375823	A	17/10/2020	UK/51/2020/0035
Southeastern	375	375823	B	17/10/2020	UK/51/2020/0035
Southeastern	375	375828	A	07/10/2020	UK/51/2020/0035
Southeastern	375	375828	B	07/10/2020	UK/51/2020/0035
Southeastern	375	375914	B	24/09/2020	UK/51/2020/0035
Southeastern	375	375914	A	24/09/2020	UK/51/2020/0035
Southeastern	375	375915	B	25/09/2020	UK/51/2020/0035
Southeastern	375	375923	A	28/09/2020	UK/51/2020/0035
Southeastern	375	375923	B	28/09/2020	UK/51/2020/0035
Southeastern	376	376007	A	01/10/2020	UK/51/2020/0036
Southeastern	376	376007	B	01/10/2020	UK/51/2020/0036
Southeastern	376	376015	B	16/10/2020	UK/51/2020/0036
Southeastern	376	376015	A	16/10/2020	UK/51/2020/0036
Southeastern	465	465003	A	06/10/2020	UK/51/2020/0037
Southeastern	465	465003	B	06/10/2020	UK/51/2020/0037
Southeastern	465	465008	A	16/10/2020	UK/51/2020/0037
Southeastern	465	465008	B	16/10/2020	UK/51/2020/0037
Southeastern	465	465010	B	10/10/2020	UK/51/2020/0037
Southeastern	465	465010	A	10/10/2020	UK/51/2020/0037
Southeastern	465	465013	A	25/09/2020	UK/51/2020/0037
Southeastern	465	465013	B	25/09/2020	UK/51/2020/0037
Southeastern	465	465017	A	23/09/2020	UK/51/2020/0037
Southeastern	465	465017	B	23/09/2020	UK/51/2020/0037
Southeastern	465	465021	A	23/09/2020	UK/51/2020/0037
Southeastern	465	465021	B	23/09/2020	UK/51/2020/0037
Southeastern	465	465027	B	28/09/2020	UK/51/2020/0037
Southeastern	465	465027	A	28/09/2020	UK/51/2020/0037
Southeastern	465	465028	B	21/09/2020	UK/51/2020/0037
Southeastern	465	465028	A	21/09/2020	UK/51/2020/0037
Southeastern	465	465034	A	01/10/2020	UK/51/2020/0037
Southeastern	465	465034	B	01/10/2020	UK/51/2020/0037
Southeastern	465	465036	A	22/09/2020	UK/51/2020/0037
Southeastern	465	465036	B	22/09/2020	UK/51/2020/0037
Southeastern	465	465038	B	13/10/2020	UK/51/2020/0037
Southeastern	465	465038	A	13/10/2020	UK/51/2020/0037
Southeastern	465	465043	A	23/09/2020	UK/51/2020/0037
Southeastern	465	465043	B	24/09/2020	UK/51/2020/0037

Southeastern	465	465045	A	12/10/2020	UK/51/2020/0037
Southeastern	465	465045	B	12/10/2020	UK/51/2020/0037
Southeastern	465	465049	A	08/10/2020	UK/51/2020/0037
Southeastern	465	465049	B	08/10/2020	UK/51/2020/0037
Southeastern	465	465157	A	17/10/2020	UK/51/2020/0037
Southeastern	465	465157	B	17/10/2020	UK/51/2020/0037
Southeastern	465	465174	B	09/10/2020	UK/51/2020/0037
Southeastern	465	465174	A	09/10/2020	UK/51/2020/0037
Southeastern	465	465181	A	02/10/2020	UK/51/2020/0037
Southeastern	465	465181	B	02/10/2020	UK/51/2020/0037
Southeastern	465	465183	A	15/10/2020	UK/51/2020/0037
Southeastern	465	465183	B	15/10/2020	UK/51/2020/0037
Southeastern	465	465184	A	05/10/2020	UK/51/2020/0037
Southeastern	465	465184	B	05/10/2020	UK/51/2020/0037
Southeastern	465	465193	B	02/10/2020	UK/51/2020/0037
Southeastern	465	465193	A	02/10/2020	UK/51/2020/0037
Southeastern	465	465194	B	07/10/2020	UK/51/2020/0037
Southeastern	465	465194	A	07/10/2020	UK/51/2020/0037
Southeastern	465	465235	B	07/10/2020	UK/51/2020/0037
Southeastern	465	465235	A	07/10/2020	UK/51/2020/0037
Southeastern	465	465238	A	14/10/2020	UK/51/2020/0037
Southeastern	465	465238	B	14/10/2020	UK/51/2020/0037
Southeastern	465	465241	B	15/10/2020	UK/51/2020/0037
Southeastern	465	465241	A	15/10/2020	UK/51/2020/0037
Southeastern	465	465246	A	20/09/2020	UK/51/2020/0037
Southeastern	465	465246	B	24/09/2020	UK/51/2020/0037
Southeastern	465	465248	A	13/10/2020	UK/51/2020/0037
Southeastern	465	465248	B	13/10/2020	UK/51/2020/0037
Southeastern	465	465902	A	29/09/2020	UK/51/2020/0037
Southeastern	465	465902	B	29/09/2020	UK/51/2020/0037
Southeastern	465	465905	A	30/09/2020	UK/51/2020/0037
Southeastern	465	465905	B	30/09/2020	UK/51/2020/0037
Southeastern	465	465907	B	07/10/2020	UK/51/2020/0037
Southeastern	465	465907	A	07/10/2020	UK/51/2020/0037
Southeastern	465	465909	A	06/10/2020	UK/51/2020/0037
Southeastern	465	465917	A	29/09/2020	UK/51/2020/0037
Southeastern	465	465917	B	29/09/2020	UK/51/2020/0037
Southeastern	465	465920	B	21/09/2020	UK/51/2020/0037
Southeastern	465	465920	A	21/09/2020	UK/51/2020/0037

Southeastern	465	465934	A	13/10/2020	UK/51/2020/0037
Southeastern	465	465934	B	13/10/2020	UK/51/2020/0037
Southeastern	466	466009	B	09/10/2020	UK/51/2020/0041
Southeastern	466	466009	A	09/10/2020	UK/51/2020/0041
Southeastern	466	466022	B	25/09/2020	UK/51/2020/0041
Southeastern	466	466022	A	25/09/2020	UK/51/2020/0041
Southeastern	466	466024	A	14/10/2020	UK/51/2020/0041
Southeastern	466	466024	B	14/10/2020	UK/51/2020/0041
Southeastern	466	466028	B	02/10/2020	UK/51/2020/0041
Southeastern	466	466028	A	02/10/2020	UK/51/2020/0041
Southeastern	466	466030	A	28/09/2020	UK/51/2020/0041
Southeastern	466	466030	B	28/09/2020	UK/51/2020/0041
Volker Rail	075	075302	A	07/10/2020	UK/51/2020/0016
Volker Rail	075	075302	B	07/10/2020	UK/51/2020/0016
Volker Rail	075	075401	A	24/09/2020	UK/51/2020/0016
Volker Rail	075	075401	B	24/09/2020	UK/51/2020/0016
West Midlands Trains	196	196102	A	24/09/2020	UK/51/2020/0038
West Midlands Trains	196	196104	A	09/10/2020	UK/51/2020/0038
West Midlands Trains	319	319012	A	03/10/2020	UK/51/2020/0053
West Midlands Trains	319	319012	B	03/10/2020	UK/51/2020/0053
West Midlands Trains	319	319219	B	07/10/2020	UK/51/2020/0053
West Midlands Trains	319	319219	A	07/10/2020	UK/51/2020/0053
West Midlands Trains	319	319220	B	03/10/2020	UK/51/2020/0053
West Midlands Trains	319	319220	A	03/10/2020	UK/51/2020/0053
West Midlands Trains	319	319441	A	08/10/2020	UK/51/2020/0053
West Midlands Trains	319	319441	B	08/10/2020	UK/51/2020/0053
West Midlands Trains	350	350111	A	21/09/2020	UK/51/2020/0026
West Midlands Trains	350	350111	B	21/09/2020	UK/51/2020/0026
West Midlands Trains	350	350115	A	14/10/2020	UK/51/2020/0026
West Midlands Trains	350	350115	B	14/10/2020	UK/51/2020/0026
West Midlands Trains	350	350116	B	22/09/2020	UK/51/2020/0026
West Midlands Trains	350	350116	A	22/09/2020	UK/51/2020/0026
West Midlands Trains	350	350127	A	21/09/2020	UK/51/2020/0026
West Midlands Trains	350	350127	B	21/09/2020	UK/51/2020/0026
West Midlands Trains	350	350129	A	06/10/2020	UK/51/2020/0026
West Midlands Trains	350	350129	B	06/10/2020	UK/51/2020/0026
West Midlands Trains	350	350232	A	08/10/2020	UK/51/2020/0026
West Midlands Trains	350	350232	B	08/10/2020	UK/51/2020/0026
West Midlands Trains	350	350241	A	02/10/2020	UK/51/2020/0026

West Midlands Trains	350	350241	B	02/10/2020	UK/51/2020/0026
West Midlands Trains	350	350244	B	03/10/2020	UK/51/2020/0026
West Midlands Trains	350	350244	A	03/10/2020	UK/51/2020/0026
West Midlands Trains	350	350257	A	03/10/2020	UK/51/2020/0026
West Midlands Trains	350	350257	B	03/10/2020	UK/51/2020/0026
West Midlands Trains	350	350263	B	17/10/2020	UK/51/2020/0026
West Midlands Trains	350	350263	A	17/10/2020	UK/51/2020/0026
West Midlands Trains	350	350265	A	12/10/2020	UK/51/2020/0026
West Midlands Trains	350	350265	B	12/10/2020	UK/51/2020/0026
West Midlands Trains	350	350372	A	03/10/2020	UK/51/2020/0026
West Midlands Trains	350	350372	B	03/10/2020	UK/51/2020/0026
West Midlands Trains	350	350404	B	01/10/2020	UK/51/2020/0026
West Midlands Trains	350	350404	A	01/10/2020	UK/51/2020/0026
West Midlands Trains	350	350405	B	30/09/2020	UK/51/2020/0026
West Midlands Trains	350	350405	A	30/09/2020	UK/51/2020/0026
West Midlands Trains	350	350406	A	15/10/2020	UK/51/2020/0026
West Midlands Trains	350	350406	B	15/10/2020	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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