

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

Your Ref : OP158365
R00018

Case Ref : PRM-IOP-0333

IN Number : As listed

Date: 19th October 2021

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 5th October 2021. 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 a new 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 3rd September 2021 and the Letter of Assessment of Minor Change reference ACS9244 L02 dated the 30th July 2021.

This authorisation applies to the following inclusive.

Operator	Class	Vehicle	Cab	V4.0 Installation Date	IN
5305 Locomotive Association	98	98505	A	06/09/2021	UK/51/2020/0017
5305 Locomotive Association	98	98577	A	02/09/2021	UK/51/2020/0017
7029 Clun Castle Ltd	98	98457	A	29/07/2021	UK/51/2020/0017
71000 Steam Loco Trust Ltd	98	98802	A	29/07/2021	UK/51/2020/0017
Abellio ScotRail	158	158713	B	30/07/2021	UK/51/2020/0013
Abellio ScotRail	385	385003	A	12/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385003	B	12/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385007	A	15/09/2021	UK/51/2021/0058
Abellio ScotRail	385	385007	B	15/09/2021	UK/51/2021/0058
Abellio ScotRail	385	385009	A	03/09/2021	UK/51/2021/0058
Abellio ScotRail	385	385011	A	21/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385011	B	21/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385017	A	31/07/2021	UK/51/2021/0058
Abellio ScotRail	385	385017	B	31/07/2021	UK/51/2021/0058
Abellio ScotRail	385	385018	A	03/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385018	B	03/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385020	A	12/09/2021	UK/51/2021/0058
Abellio ScotRail	385	385020	B	12/09/2021	UK/51/2021/0058
Abellio ScotRail	385	385024	A	14/09/2021	UK/51/2021/0058
Abellio ScotRail	385	385024	B	14/09/2021	UK/51/2021/0058

Abellio ScotRail	385	385025	A	18/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385025	B	18/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385026	A	18/09/2021	UK/51/2021/0058
Abellio ScotRail	385	385026	B	18/09/2021	UK/51/2021/0058
Abellio ScotRail	385	385028	A	17/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385028	B	17/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385030	A	04/09/2021	UK/51/2021/0058
Abellio ScotRail	385	385030	B	04/09/2021	UK/51/2021/0058
Abellio ScotRail	385	385032	A	16/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385032	B	16/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385036	A	17/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385036	B	17/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385037	A	14/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385037	B	14/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385039	A	11/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385039	B	11/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385040	A	01/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385040	B	01/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385041	A	16/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385041	B	16/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385101	A	15/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385101	B	15/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385105	A	31/07/2021	UK/51/2021/0058
Abellio ScotRail	385	385105	B	31/07/2021	UK/51/2021/0058
Abellio ScotRail	385	385106	A	18/09/2021	UK/51/2021/0058
Abellio ScotRail	385	385108	A	01/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385108	B	01/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385109	A	17/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385109	B	17/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385111	A	19/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385111	B	19/08/2021	UK/51/2021/0058
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Abellio ScotRail	385	385112	B	09/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385113	A	17/09/2021	UK/51/2021/0058
Abellio ScotRail	385	385113	B	17/09/2021	UK/51/2021/0058
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Abellio ScotRail	385	385116	A	20/08/2021	UK/51/2021/0058
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Abellio ScotRail	385	385118	B	02/08/2021	UK/51/2021/0058
Abellio ScotRail	385	385119	A	09/09/2021	UK/51/2021/0058
Abellio ScotRail	385	385119	B	09/09/2021	UK/51/2021/0058
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Abellio ScotRail	385	385120	B	10/08/2021	UK/51/2021/0058
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Abellio ScotRail	385	385123	B	02/08/2021	UK/51/2021/0058
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Arriva Rail London	710	710259	A	19/08/2021	UK/51/2021/0049
Arriva Rail London	710	710259	B	19/08/2021	UK/51/2021/0049
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Arriva Rail London	710	710262	B	24/08/2021	UK/51/2021/0049
Arriva Rail London	710	710264	A	13/08/2021	UK/51/2021/0049
Arriva Rail London	710	710264	B	13/08/2021	UK/51/2021/0049
Arriva Rail London	710	710269	A	09/08/2021	UK/51/2021/0049
Arriva Rail London	710	710269	B	09/08/2021	UK/51/2021/0049
Arriva Rail London	710	710378	A	27/08/2021	UK/51/2021/0049
Arriva Rail London	710	710378	B	27/08/2021	UK/51/2021/0049
Avanti West Coast	221	221101	A	02/08/2021	UK/51/2020/0062
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Avanti West Coast	221	221102	A	20/08/2021	UK/51/2020/0062
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Avanti West Coast	221	221104	A	30/07/2021	UK/51/2020/0062
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Avanti West Coast	221	221108	A	06/09/2021	UK/51/2020/0062
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Avanti West Coast	390	390156	A	14/08/2021	UK/51/2021/0060
Avanti West Coast	390	390156	B	14/08/2021	UK/51/2021/0060
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c2c	357	357027	A	26/08/2021	UK/51/2021/0006
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c2c	357	357031	A	01/09/2021	UK/51/2021/0006
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c2c	357	357033	B	03/09/2021	UK/51/2021/0006
c2c	357	357034	A	06/09/2021	UK/51/2021/0006
c2c	357	357034	B	06/09/2021	UK/51/2021/0006
c2c	357	357035	B	07/09/2021	UK/51/2021/0006
c2c	357	357036	A	09/09/2021	UK/51/2021/0006
c2c	357	357036	B	09/09/2021	UK/51/2021/0006

c2c	357	357037	A	08/09/2021	UK/51/2021/0006
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c2c	357	357038	B	10/09/2021	UK/51/2021/0006
c2c	357	357039	A	13/09/2021	UK/51/2021/0006
c2c	357	357039	B	13/09/2021	UK/51/2021/0006
c2c	357	357041	A	14/09/2021	UK/51/2021/0006
c2c	357	357041	B	14/09/2021	UK/51/2021/0006
c2c	357	357042	A	15/09/2021	UK/51/2021/0006
c2c	357	357042	B	15/09/2021	UK/51/2021/0006
c2c	357	357043	A	16/09/2021	UK/51/2021/0006
c2c	357	357043	B	16/09/2021	UK/51/2021/0006
c2c	357	357044	A	17/09/2021	UK/51/2021/0006
c2c	357	357044	B	17/09/2021	UK/51/2021/0006
Chiltern Railways	168	168004	B	30/07/2021	UK/51/2020/0043
Class 50 Alliance Ltd	50	50044	A	27/08/2021	UK/51/2020/0069
Colas Rail	37	37057	A	05/08/2021	UK/51/2020/0015
Colas Rail	37	37099	A	05/08/2021	UK/51/2020/0015
Colas Rail	37	37418	A	18/08/2021	UK/51/2020/0015
Colas Rail	37	37421	A	05/08/2021	UK/51/2020/0015
Colas Rail	70	70802	A	12/08/2021	UK/51/2020/0002
DB Cargo	325	325001	A	13/08/2021	UK/51/2021/0028
DB Cargo	325	325001	B	13/08/2021	UK/51/2021/0028
DB Cargo	325	325002	A	17/08/2021	UK/51/2021/0028
DB Cargo	325	325002	B	17/08/2021	UK/51/2021/0028
DB Cargo	325	325003	A	31/08/2021	UK/51/2021/0028
DB Cargo	325	325003	B	31/08/2021	UK/51/2021/0028
DB Cargo	325	325004	A	06/08/2021	UK/51/2021/0028
DB Cargo	325	325004	B	06/08/2021	UK/51/2021/0028
DB Cargo	325	325005	A	28/07/2021	UK/51/2021/0028
DB Cargo	325	325005	B	29/07/2021	UK/51/2021/0028
DB Cargo	325	325006	A	18/08/2021	UK/51/2021/0028
DB Cargo	325	325006	B	18/08/2021	UK/51/2021/0028
DB Cargo	325	325007	A	14/09/2021	UK/51/2021/0028
DB Cargo	325	325007	B	14/09/2021	UK/51/2021/0028
DB Cargo	325	325013	A	20/08/2021	UK/51/2021/0028
DB Cargo	325	325013	B	20/08/2021	UK/51/2021/0028
DB Cargo	325	325014	A	04/08/2021	UK/51/2021/0028
DB Cargo	325	325014	B	04/08/2021	UK/51/2021/0028

DB Cargo	325	325016	A	07/09/2021	UK/51/2021/0028
DB Cargo	325	325016	B	07/09/2021	UK/51/2021/0028
DB Cargo	60	60007	A	28/07/2021	UK/51/2020/0064
DB Cargo	66	66003	A	25/08/2021	UK/51/2020/0001
DB Cargo	66	66007	A	10/08/2021	UK/51/2020/0001
DB Cargo	66	66012	A	10/08/2021	UK/51/2020/0001
DB Cargo	66	66017	A	09/09/2021	UK/51/2020/0001
DB Cargo	66	66018	A	26/08/2021	UK/51/2020/0001
DB Cargo	66	66047	A	28/07/2021	UK/51/2020/0001
DB Cargo	66	66054	A	30/07/2021	UK/51/2020/0001
DB Cargo	66	66055	A	06/09/2021	UK/51/2020/0001
DB Cargo	66	66061	A	30/07/2021	UK/51/2020/0001
DB Cargo	66	66066	A	07/09/2021	UK/51/2020/0001
DB Cargo	66	66069	A	09/08/2021	UK/51/2020/0001
DB Cargo	66	66076	A	06/09/2021	UK/51/2020/0001
DB Cargo	66	66085	A	07/09/2021	UK/51/2020/0001
DB Cargo	66	66087	A	01/09/2021	UK/51/2020/0001
DB Cargo	66	66088	A	25/08/2021	UK/51/2020/0001
DB Cargo	66	66100	A	07/09/2021	UK/51/2020/0001
DB Cargo	66	66109	A	26/08/2021	UK/51/2020/0001
DB Cargo	66	66110	A	30/07/2021	UK/51/2020/0001
DB Cargo	66	66113	A	28/07/2021	UK/51/2020/0001
DB Cargo	66	66114	A	09/09/2021	UK/51/2020/0001
DB Cargo	66	66115	A	11/08/2021	UK/51/2020/0001
DB Cargo	66	66118	A	27/07/2021	UK/51/2020/0001
DB Cargo	66	66121	A	03/09/2021	UK/51/2020/0001
DB Cargo	66	66124	A	24/08/2021	UK/51/2020/0001
DB Cargo	66	66129	A	13/09/2021	UK/51/2020/0001
DB Cargo	66	66144	A	13/08/2021	UK/51/2020/0001
DB Cargo	66	66151	A	08/09/2021	UK/51/2020/0001
DB Cargo	66	66152	A	10/09/2021	UK/51/2020/0001
DB Cargo	66	66155	A	09/08/2021	UK/51/2020/0001
DB Cargo	66	66160	A	05/08/2021	UK/51/2020/0001
DB Cargo	66	66170	A	11/08/2021	UK/51/2020/0001
DB Cargo	66	66177	A	25/08/2021	UK/51/2020/0001
DB Cargo	66	66182	A	09/09/2021	UK/51/2020/0001
DB Cargo	66	66183	A	26/08/2021	UK/51/2020/0001
DB Cargo	66	66186	A	08/09/2021	UK/51/2020/0001
DB Cargo	66	66194	A	26/08/2021	UK/51/2020/0001

DB Cargo	66	66206	A	26/08/2021	UK/51/2020/0001
DB Cargo	66	66207	A	08/09/2021	UK/51/2020/0001
DB Cargo	66	66221	A	13/09/2021	UK/51/2020/0001
DB Cargo	67	67008	A	29/07/2021	UK/51/2021/0029
DB Cargo	67	67012	A	05/08/2021	UK/51/2021/0029
DB Cargo	67	67013	A	25/08/2021	UK/51/2021/0029
DB Cargo	67	67020	A	23/08/2021	UK/51/2021/0029
DB Cargo	67	67022	A	26/08/2021	UK/51/2021/0029
DB Cargo	90	90019	A	08/09/2021	UK/51/2020/0004
DB Cargo	90	90026	A	08/09/2021	UK/51/2020/0004
DB Cargo	90	90028	A	20/08/2021	UK/51/2020/0004
DB Cargo	90	90029	A	27/07/2021	UK/51/2020/0004
DB Cargo	90	90036	A	25/08/2021	UK/51/2020/0004
DB Cargo	90	90039	A	06/09/2021	UK/51/2020/0004
DB Cargo	92	92036	A	15/09/2021	UK/51/2021/0050
Diesel Heritage Vehicles	142	142003	A	19/08/2021	UK/51/2021/0061
Diesel Heritage Vehicles	142	142003	B	19/08/2021	UK/51/2021/0061
DRS	37	37419	A	02/08/2021	UK/51/2020/0015
DRS	37	37425	A	23/08/2021	UK/51/2020/0015
DRS	57	57303	A	03/09/2021	UK/51/2020/0071
DRS	57	57307	A	28/07/2021	UK/51/2020/0071
DRS	66	66428	A	15/08/2021	UK/51/2020/0001
DRS	66	66429	A	28/07/2021	UK/51/2020/0001
DRS	68	68006	A	09/08/2021	UK/51/2021/0040
DRS	68	68011	A	01/09/2021	UK/51/2021/0040
DRS	68	68015	A	02/09/2021	UK/51/2021/0040
DRS	68	68016	A	04/08/2021	UK/51/2021/0040
DRS	68	68026	A	06/08/2021	UK/51/2021/0040
DRS	68	68028	A	01/09/2021	UK/51/2021/0040
DRS	68	68029	A	03/08/2021	UK/51/2021/0040
DRS	68	68030	A	27/07/2021	UK/51/2021/0040
DRS	68	68032	A	07/08/2021	UK/51/2021/0040
DRS	68	68034	A	19/08/2021	UK/51/2021/0040
East Midlands Railway	156	156411	A	09/08/2021	UK/51/2021/0002
East Midlands Railway	156	156411	B	09/08/2021	UK/51/2021/0002
East Midlands Railway	170	170418	A	02/09/2021	UK/51/2020/0051
East Midlands Railway	170	170418	B	02/09/2021	UK/51/2020/0051
East Midlands Railway	170	170511	A	27/07/2021	UK/51/2020/0051
East Midlands Railway	170	170511	B	27/07/2021	UK/51/2020/0051

East Midlands Railway	170	170515	A	18/08/2021	UK/51/2020/0051
East Midlands Railway	170	170515	B	18/08/2021	UK/51/2020/0051
East Midlands Railway	170	170534	A	03/09/2021	UK/51/2020/0051
East Midlands Railway	170	170534	B	03/09/2021	UK/51/2020/0051
East Midlands Railway	360	360102	A	27/07/2021	UK/51/2021/0053
East Midlands Railway	360	360102	B	27/07/2021	UK/51/2021/0053
East Midlands Railway	360	360108	A	26/07/2021	UK/51/2021/0053
East Midlands Railway	360	360108	B	26/07/2021	UK/51/2021/0053
GB Railfreight	59	59003	A	20/08/2021	UK/51/2020/0021
GB Railfreight	66	66701	A	14/08/2021	UK/51/2020/0001
GB Railfreight	66	66710	A	02/08/2021	UK/51/2020/0001
GB Railfreight	66	66718	A	13/09/2021	UK/51/2020/0001
GB Railfreight	66	66722	A	26/08/2021	UK/51/2020/0001
GB Railfreight	66	66729	A	12/09/2021	UK/51/2020/0001
GB Railfreight	66	66732	A	22/08/2021	UK/51/2020/0001
GB Railfreight	66	66738	A	28/07/2021	UK/51/2020/0001
GB Railfreight	66	66742	A	07/09/2021	UK/51/2020/0001
GB Railfreight	66	66744	A	17/08/2021	UK/51/2020/0001
GB Railfreight	66	66745	A	03/08/2021	UK/51/2020/0001
GB Railfreight	66	66746	A	29/07/2021	UK/51/2020/0001
GB Railfreight	66	66749	A	02/08/2021	UK/51/2020/0001
GB Railfreight	66	66751	A	18/08/2021	UK/51/2020/0001
GB Railfreight	66	66752	A	18/08/2021	UK/51/2020/0001
GB Railfreight	66	66756	A	30/08/2021	UK/51/2020/0001
GB Railfreight	66	66758	A	12/08/2021	UK/51/2020/0001
GB Railfreight	66	66760	A	06/08/2021	UK/51/2020/0001
GB Railfreight	66	66761	A	07/08/2021	UK/51/2020/0001
GB Railfreight	66	66762	A	14/08/2021	UK/51/2020/0001
GB Railfreight	66	66763	A	30/07/2021	UK/51/2020/0001
GB Railfreight	66	66765	A	18/08/2021	UK/51/2020/0001
GB Railfreight	66	66767	A	18/08/2021	UK/51/2020/0001
GB Railfreight	66	66772	A	28/07/2021	UK/51/2020/0001
GB Railfreight	66	66773	A	27/07/2021	UK/51/2020/0001
GB Railfreight	66	66775	A	18/08/2021	UK/51/2020/0001
GB Railfreight	66	66778	A	04/08/2021	UK/51/2020/0001
GB Railfreight	66	66781	A	20/08/2021	UK/51/2020/0001
GB Railfreight	66	66783	A	21/08/2021	UK/51/2020/0001
GB Railfreight	66	66788	A	17/08/2021	UK/51/2020/0001
GB Railfreight	66	66794	A	23/08/2021	UK/51/2020/0001

GB Railfreight	66	66797	A	23/08/2021	UK/51/2020/0001
GB Railfreight	66	66798	A	09/09/2021	UK/51/2020/0001
GB Railfreight	69	69003	A	16/09/2021	UK/51/2021/0008
GB Railfreight	73	73109	A	14/09/2021	UK/51/2020/0018
GB Railfreight	73	73109	B	14/09/2021	UK/51/2020/0018
GB Railfreight	73	73136	A	14/09/2021	UK/51/2020/0018
GB Railfreight	73	73136	B	14/09/2021	UK/51/2020/0018
GB Railfreight	73	73141	A	14/09/2021	UK/51/2020/0018
GB Railfreight	73	73141	B	14/09/2021	UK/51/2020/0018
Great Western Railway	769	769923	A	09/08/2021	UK/51/2021/0010
Great Western Railway	769	769923	B	09/08/2021	UK/51/2021/0010
Great Western Railway	769	769927	A	09/08/2021	UK/51/2021/0010
Great Western Railway	769	769927	B	09/08/2021	UK/51/2021/0010
Great Western Railway	769	769935	A	02/09/2021	UK/51/2021/0010
Great Western Railway	769	769935	B	02/09/2021	UK/51/2021/0010
Great Western Railway	769	769936	A	13/08/2021	UK/51/2021/0010
Great Western Railway	769	769936	B	13/08/2021	UK/51/2021/0010
Great Western Railway	769	769937	A	01/09/2021	UK/51/2021/0010
Great Western Railway	769	769937	B	01/09/2021	UK/51/2021/0010
Great Western Railway	769	769940	A	02/09/2021	UK/51/2021/0010
Great Western Railway	769	769940	B	02/09/2021	UK/51/2021/0010
Great Western Railway	800	800001	A	17/09/2021	UK/51/2021/0013
Great Western Railway	800	800001	B	17/09/2021	UK/51/2021/0013
Great Western Railway	800	800003	A	03/09/2021	UK/51/2021/0013
Great Western Railway	800	800003	B	03/09/2021	UK/51/2021/0013
Great Western Railway	800	800010	A	03/09/2021	UK/51/2021/0013
Great Western Railway	800	800010	B	03/09/2021	UK/51/2021/0013
Great Western Railway	800	800011	A	13/08/2021	UK/51/2021/0013
Great Western Railway	800	800011	B	13/08/2021	UK/51/2021/0013
Great Western Railway	800	800023	A	11/09/2021	UK/51/2021/0013
Great Western Railway	800	800023	B	11/09/2021	UK/51/2021/0013
Great Western Railway	800	800032	A	11/09/2021	UK/51/2021/0013
Great Western Railway	800	800032	B	11/09/2021	UK/51/2021/0013
Great Western Railway	800	800304	A	14/09/2021	UK/51/2021/0013
Great Western Railway	800	800304	B	14/09/2021	UK/51/2021/0013
Great Western Railway	800	800316	A	04/09/2021	UK/51/2021/0013
Great Western Railway	800	800316	B	04/09/2021	UK/51/2021/0013
Great Western Railway	802	802008	A	31/08/2021	UK/51/2021/0007
Great Western Railway	802	802008	B	31/08/2021	UK/51/2021/0007

Great Western Railway	802	802009	A	01/09/2021	UK/51/2021/0007
Great Western Railway	802	802009	B	01/09/2021	UK/51/2021/0007
Great Western Railway	802	802010	A	16/08/2021	UK/51/2021/0007
Great Western Railway	802	802010	B	16/08/2021	UK/51/2021/0007
Great Western Railway	802	802011	A	11/08/2021	UK/51/2021/0007
Great Western Railway	802	802011	B	11/08/2021	UK/51/2021/0007
Great Western Railway	802	802018	A	04/09/2021	UK/51/2021/0007
Great Western Railway	802	802018	B	04/09/2021	UK/51/2021/0007
Greater Anglia	745	745005	A	28/07/2021	UK/51/2021/0054
Greater Anglia	745	745005	B	28/07/2021	UK/51/2021/0054
Greater Anglia	745	745006	A	23/08/2021	UK/51/2021/0054
Greater Anglia	745	745006	B	23/08/2021	UK/51/2021/0054
Greater Anglia	745	745010	A	03/08/2021	UK/51/2021/0054
Greater Anglia	745	745010	B	03/08/2021	UK/51/2021/0054
Greater Anglia	745	745101	A	04/08/2021	UK/51/2021/0054
Greater Anglia	745	745101	B	04/08/2021	UK/51/2021/0054
Greater Anglia	745	745104	A	29/07/2021	UK/51/2021/0054
Greater Anglia	745	745104	B	29/07/2021	UK/51/2021/0054
Greater Anglia	745	745105	A	06/08/2021	UK/51/2021/0054
Greater Anglia	745	745105	B	06/08/2021	UK/51/2021/0054
Greater Anglia	745	745107	A	25/08/2021	UK/51/2021/0054
Greater Anglia	745	745107	B	25/08/2021	UK/51/2021/0054
Greater Anglia	745	745108	A	13/08/2021	UK/51/2021/0054
Greater Anglia	745	745108	B	13/08/2021	UK/51/2021/0054
Greater Anglia	745	745110	A	19/08/2021	UK/51/2021/0054
Greater Anglia	745	745110	B	19/08/2021	UK/51/2021/0054
Greater Anglia	755	755326	A	19/08/2021	UK/51/2021/0012
Greater Anglia	755	755326	B	19/08/2021	UK/51/2021/0012
Greater Anglia	755	755328	A	02/08/2021	UK/51/2021/0012
Greater Anglia	755	755328	B	02/08/2021	UK/51/2021/0012
Greater Anglia	755	755329	A	31/08/2021	UK/51/2021/0012
Greater Anglia	755	755329	B	31/08/2021	UK/51/2021/0012
Greater Anglia	755	755331	A	01/09/2021	UK/51/2021/0012
Greater Anglia	755	755331	B	01/09/2021	UK/51/2021/0012
Greater Anglia	755	755333	A	05/08/2021	UK/51/2021/0012
Greater Anglia	755	755333	B	05/08/2021	UK/51/2021/0012
Greater Anglia	755	755337	A	11/08/2021	UK/51/2021/0012
Greater Anglia	755	755337	B	11/08/2021	UK/51/2021/0012
Greater Anglia	755	755411	A	02/08/2021	UK/51/2021/0012

Greater Anglia	755	755411	B	02/08/2021	UK/51/2021/0012
Greater Anglia	755	755413	A	05/08/2021	UK/51/2021/0012
Greater Anglia	755	755413	B	05/08/2021	UK/51/2021/0012
Greater Anglia	755	755414	A	10/08/2021	UK/51/2021/0012
Greater Anglia	755	755414	B	10/08/2021	UK/51/2021/0012
Greater Anglia	755	755415	A	04/08/2021	UK/51/2021/0012
Greater Anglia	755	755415	B	04/08/2021	UK/51/2021/0012
Greater Anglia	755	755420	A	20/08/2021	UK/51/2021/0012
Greater Anglia	755	755420	B	16/08/2021	UK/51/2021/0012
Greater Anglia	755	755421	A	27/07/2021	UK/51/2021/0012
Greater Anglia	755	755421	B	27/07/2021	UK/51/2021/0012
Greater Anglia	755	755423	A	20/08/2021	UK/51/2021/0012
Greater Anglia	755	755423	B	20/08/2021	UK/51/2021/0012
LNER	801	801110	A	29/07/2021	UK/51/2021/0014
LNER	801	801110	B	29/07/2021	UK/51/2021/0014
LNER	801	801111	A	27/07/2021	UK/51/2021/0014
LNER	801	801111	B	27/07/2021	UK/51/2021/0014
LNER	801	801202	A	12/08/2021	UK/51/2021/0014
LNER	801	801202	B	12/08/2021	UK/51/2021/0014
LNER	801	801206	A	10/08/2021	UK/51/2021/0014
LNER	801	801206	B	10/08/2021	UK/51/2021/0014
LNER	801	801213	A	16/09/2021	UK/51/2021/0014
LNER	801	801213	B	16/09/2021	UK/51/2021/0014
LNER	801	801217	A	07/09/2021	UK/51/2021/0014
LNER	801	801217	B	08/09/2021	UK/51/2021/0014
LNER	801	801218	A	02/08/2021	UK/51/2021/0014
LNER	801	801218	B	02/08/2021	UK/51/2021/0014
LNER	801	801226	A	18/08/2021	UK/51/2021/0014
LNER	801	801226	B	18/08/2021	UK/51/2021/0014
LNER	82	82205	A	17/08/2021	UK/51/2020/0044
LNER	82	82208	A	03/09/2021	UK/51/2020/0044
LNER	82	82211	A	06/09/2021	UK/51/2020/0044
LNER	82	82212	A	03/09/2021	UK/51/2020/0044
LNER	82	82213	A	02/09/2021	UK/51/2020/0044
LNER	82	82214	A	16/08/2021	UK/51/2020/0044
LNER	82	82223	A	07/09/2021	UK/51/2020/0044
LNER	82	82225	A	16/08/2021	UK/51/2020/0044
LNER	91	91106	A	06/09/2021	UK/51/2021/0062
LNER	91	91107	A	03/09/2021	UK/51/2021/0062

LNER	91	91109	A	19/08/2021	UK/51/2021/0062
LNER	91	91110	A	17/08/2021	UK/51/2021/0062
LNER	91	91111	A	07/09/2021	UK/51/2021/0062
LNER	91	91114	A	20/08/2021	UK/51/2021/0062
LNER	91	91119	A	19/08/2021	UK/51/2021/0062
LNER	91	91124	A	16/08/2021	UK/51/2021/0062
LNER	91	91127	A	17/08/2021	UK/51/2021/0062
LNER	91	91130	A	02/09/2021	UK/51/2021/0062
Locomotive Services	960	960014	A	04/08/2021	UK/51/2021/0063
Merseyrail	507	507001	A	06/09/2021	UK/51/2020/0011
Merseyrail	507	507001	B	06/09/2021	UK/51/2020/0011
Merseyrail	507	507012	A	10/09/2021	UK/51/2020/0011
Merseyrail	507	507012	B	10/09/2021	UK/51/2020/0011
Merseyrail	507	507023	A	15/09/2021	UK/51/2020/0011
Merseyrail	507	507023	B	15/09/2021	UK/51/2020/0011
Merseyrail	507	507026	A	16/09/2021	UK/51/2020/0011
Merseyrail	507	507026	B	16/09/2021	UK/51/2020/0011
Merseyrail	508	508123	B	14/09/2021	UK/51/2020/0012
Merseyrail	508	508126	A	13/09/2021	UK/51/2020/0012
Merseyrail	508	508126	B	13/09/2021	UK/51/2020/0012
Merseyrail	508	508128	A	08/09/2021	UK/51/2020/0012
Merseyrail	508	508128	B	08/09/2021	UK/51/2020/0012
National Railway Museum	47	47798	A	12/08/2021	UK/51/2020/0034
National Railway Museum	98	98713	A	18/08/2021	UK/51/2020/0017
Network Rail	009	009701	A	04/08/2021	UK/51/2020/0057
Network Rail	009	009714	A	11/08/2021	UK/51/2020/0057
Network Rail	076	076901	A	16/08/2021	UK/51/2021/0015
Network Rail	080	080213	A	14/09/2021	UK/51/2021/0042
Network Rail	080	080213	B	13/09/2021	UK/51/2021/0042
Network Rail	153	153311	A	17/09/2021	UK/51/2021/0024
Network Rail	153	153376	A	23/08/2021	UK/51/2021/0024
Network Rail	153	153385	A	23/08/2021	UK/51/2021/0024
Network Rail	950	950001	A	03/08/2021	UK/51/2021/0064
Network Rail	950	950001	B	03/08/2021	UK/51/2021/0064
Network Rail	97	97301	A	06/08/2021	UK/51/2021/0034
North Yorkshire Moors Railway	98	98605	A	05/08/2021	UK/51/2020/0017
Northern Trains Ltd	153	153324	A	31/07/2021	UK/51/2021/0024
Northern Trains Ltd	153	153332	A	01/08/2021	UK/51/2021/0024
Northern Trains Ltd	153	153359	A	03/08/2021	UK/51/2021/0024

Northern Trains Ltd	153	153360	A	29/07/2021	UK/51/2021/0024
Northern Trains Ltd	333	333009	A	03/08/2021	UK/51/2021/0036
Northern Trains Ltd	333	333009	B	03/08/2021	UK/51/2021/0036
RAIL OPERATIONS GROUP	57	57301	A	13/08/2021	UK/51/2020/0071
RAIL OPERATIONS GROUP	57	57305	A	13/08/2021	UK/51/2020/0071
RAIL OPERATIONS GROUP	57	57310	A	13/08/2021	UK/51/2020/0071
RAIL OPERATIONS GROUP	57	57312	A	13/08/2021	UK/51/2020/0071
Rail Operations Group	768	768002	A	25/08/2021	UK/51/2021/0057
Rail Operations Group	768	768002	B	25/08/2021	UK/51/2021/0057
Rail Operations Group	769	769009	A	10/08/2021	UK/51/2021/0010
Rail Operations Group	769	769009	B	10/08/2021	UK/51/2021/0010
ROSCO Storage	142	142007	A	20/08/2021	UK/51/2021/0065
ROSCO Storage	142	142007	B	20/08/2021	UK/51/2021/0065
ROSCO Storage	144	144014	A	28/07/2021	UK/51/2021/0066
ROSCO Storage	144	144014	B	28/07/2021	UK/51/2021/0066
ROSCO Storage	144	144019	A	28/07/2021	UK/51/2021/0066
ROSCO Storage	144	144019	B	28/07/2021	UK/51/2021/0066
ROSCO Storage	144	144023	A	27/07/2021	UK/51/2021/0066
ROSCO Storage	144	144023	B	27/07/2021	UK/51/2021/0066
ROSCO Storage	455	455847	A	29/07/2021	UK/51/2020/0010
ROSCO Storage	455	455847	B	29/07/2021	UK/51/2020/0010
South Western Railway	701	701012	A	29/08/2021	UK/51/2020/0060
South Western Railway	701	701012	B	29/08/2021	UK/51/2020/0060
South Western Railway	701	701037	A	01/09/2021	UK/51/2020/0060
South Western Railway	701	701038	A	25/08/2021	UK/51/2020/0060
Steam Loco	98	98428	B	29/07/2021	UK/51/2020/0017
Steam Loco	98	98872	A	11/08/2021	UK/51/2020/0017
Swanage Railway	121	121028	A	29/07/2021	UK/51/2021/0055
Swanage Railway	33	33012	A	11/08/2021	UK/51/2021/0048
Swanage Railway	51	51356	A	29/07/2021	UK/51/2021/0067
Swanage Railway	51	51388	A	28/07/2021	UK/51/2021/0067
TransPennine Express	185	185103	A	27/07/2021	UK/51/2021/0043
TransPennine Express	185	185103	B	27/07/2021	UK/51/2021/0043
TransPennine Express	185	185106	A	24/08/2021	UK/51/2021/0043
TransPennine Express	185	185106	B	24/08/2021	UK/51/2021/0043
TransPennine Express	185	185107	B	25/07/2021	UK/51/2021/0043
TransPennine Express	185	185108	A	29/07/2021	UK/51/2021/0043
TransPennine Express	185	185108	B	29/07/2021	UK/51/2021/0043
TransPennine Express	185	185110	A	27/07/2021	UK/51/2021/0043

TransPennine Express	185	185110	B	27/07/2021	UK/51/2021/0043
TransPennine Express	185	185113	A	10/08/2021	UK/51/2021/0043
TransPennine Express	185	185113	B	10/08/2021	UK/51/2021/0043
TransPennine Express	185	185115	A	26/07/2021	UK/51/2021/0043
TransPennine Express	185	185115	B	26/07/2021	UK/51/2021/0043
TransPennine Express	185	185116	A	26/07/2021	UK/51/2021/0043
TransPennine Express	185	185116	B	26/07/2021	UK/51/2021/0043
TransPennine Express	185	185126	A	09/08/2021	UK/51/2021/0043
TransPennine Express	185	185126	B	09/08/2021	UK/51/2021/0043
TransPennine Express	185	185133	A	12/08/2021	UK/51/2021/0043
TransPennine Express	185	185133	B	12/08/2021	UK/51/2021/0043
TransPennine Express	185	185134	A	15/08/2021	UK/51/2021/0043
TransPennine Express	185	185134	B	15/08/2021	UK/51/2021/0043
TransPennine Express	185	185135	A	28/07/2021	UK/51/2021/0043
TransPennine Express	185	185135	B	28/07/2021	UK/51/2021/0043
TransPennine Express	185	185138	A	09/08/2021	UK/51/2021/0043
TransPennine Express	185	185138	B	09/08/2021	UK/51/2021/0043
TransPennine Express	185	185145	A	11/08/2021	UK/51/2021/0043
TransPennine Express	185	185145	B	11/08/2021	UK/51/2021/0043
TransPennine Express	185	185150	A	28/07/2021	UK/51/2021/0043
TransPennine Express	185	185150	B	27/07/2021	UK/51/2021/0043
Transport for Wales	150	150208	A	26/08/2021	UK/51/2021/0009
Transport for Wales	150	150208	B	26/08/2021	UK/51/2021/0009
Transport for Wales	150	150217	A	15/09/2021	UK/51/2021/0009
Transport for Wales	150	150217	B	15/09/2021	UK/51/2021/0009
Transport for Wales	150	150229	A	16/09/2021	UK/51/2021/0009
Transport for Wales	150	150229	B	16/09/2021	UK/51/2021/0009
Transport for Wales	150	150230	A	30/08/2021	UK/51/2021/0009
Transport for Wales	150	150230	B	30/08/2021	UK/51/2021/0009
Transport for Wales	150	150231	A	01/09/2021	UK/51/2021/0009
Transport for Wales	150	150231	B	01/09/2021	UK/51/2021/0009
Transport for Wales	150	150237	A	08/09/2021	UK/51/2021/0009
Transport for Wales	150	150237	B	08/09/2021	UK/51/2021/0009
Transport for Wales	150	150251	A	09/09/2021	UK/51/2021/0009
Transport for Wales	150	150251	B	09/09/2021	UK/51/2021/0009
Transport for Wales	150	150252	A	13/09/2021	UK/51/2021/0009
Transport for Wales	150	150252	B	13/09/2021	UK/51/2021/0009
Transport for Wales	150	150253	A	07/09/2021	UK/51/2021/0009
Transport for Wales	150	150253	B	07/09/2021	UK/51/2021/0009

Transport for Wales	150	150256	A	08/09/2021	UK/51/2021/0009
Transport for Wales	150	150256	B	08/09/2021	UK/51/2021/0009
Transport for Wales	150	150259	A	24/08/2021	UK/51/2021/0009
Transport for Wales	150	150259	B	24/08/2021	UK/51/2021/0009
Transport for Wales	150	150282	A	09/09/2021	UK/51/2021/0009
Transport for Wales	150	150282	B	09/09/2021	UK/51/2021/0009
Transport for Wales	150	150283	A	07/09/2021	UK/51/2021/0009
Transport for Wales	150	150283	B	07/09/2021	UK/51/2021/0009
Transport for Wales	153	153303	A	14/09/2021	UK/51/2021/0024
Transport for Wales	153	153306	A	14/09/2021	UK/51/2021/0024
Transport for Wales	153	153318	A	14/09/2021	UK/51/2021/0024
Transport for Wales	153	153326	A	14/09/2021	UK/51/2021/0024
Transport for Wales	153	153382	A	09/09/2021	UK/51/2021/0024
Transport for Wales	158	158829	A	16/09/2021	UK/51/2020/0013
Transport for Wales	158	158829	B	16/09/2021	UK/51/2020/0013
Transport for Wales	170	170201	A	31/08/2021	UK/51/2020/0051
Transport for Wales	170	170201	B	31/08/2021	UK/51/2020/0051
Transport for Wales	170	170202	A	25/08/2021	UK/51/2020/0051
Transport for Wales	170	170202	B	25/08/2021	UK/51/2020/0051
Transport for Wales	170	170203	A	01/09/2021	UK/51/2020/0051
Transport for Wales	170	170203	B	01/09/2021	UK/51/2020/0051
Transport for Wales	170	170204	A	20/08/2021	UK/51/2020/0051
Transport for Wales	170	170204	B	20/08/2021	UK/51/2020/0051
Transport for Wales	170	170205	A	25/08/2021	UK/51/2020/0051
Transport for Wales	170	170205	B	25/08/2021	UK/51/2020/0051
Transport for Wales	170	170206	A	27/08/2021	UK/51/2020/0051
Transport for Wales	170	170206	B	27/08/2021	UK/51/2020/0051
Transport for Wales	170	170207	A	06/09/2021	UK/51/2020/0051
Transport for Wales	170	170207	B	06/09/2021	UK/51/2020/0051
Transport for Wales	170	170208	A	27/08/2021	UK/51/2020/0051
Transport for Wales	170	170208	B	27/08/2021	UK/51/2020/0051
Transport for Wales	170	170270	A	06/09/2021	UK/51/2020/0051
Transport for Wales	170	170270	B	06/09/2021	UK/51/2020/0051
Transport for Wales	170	170271	B	31/08/2021	UK/51/2020/0051
Transport for Wales	170	170272	A	10/09/2021	UK/51/2020/0051
Transport for Wales	170	170272	B	10/09/2021	UK/51/2020/0051
Transport for Wales	175	175005	A	24/08/2021	UK/51/2021/0068
Transport for Wales	175	175005	B	24/08/2021	UK/51/2021/0068
Transport for Wales	175	175009	A	25/08/2021	UK/51/2021/0068

Transport for Wales	175	175009	B	25/08/2021	UK/51/2021/0068
Transport for Wales	769	769002	A	13/09/2021	UK/51/2021/0010
Transport for Wales	769	769002	B	13/09/2021	UK/51/2021/0010
Transport for Wales	769	769003	A	15/09/2021	UK/51/2021/0010
Transport for Wales	769	769003	B	15/09/2021	UK/51/2021/0010
Transport for Wales	769	769006	A	02/09/2021	UK/51/2021/0010
Transport for Wales	769	769006	B	02/09/2021	UK/51/2021/0010
Transport for Wales	769	769007	A	02/09/2021	UK/51/2021/0010
Transport for Wales	769	769007	B	02/09/2021	UK/51/2021/0010
Transport for Wales	769	769445	A	30/08/2021	UK/51/2021/0010
Transport for Wales	769	769445	B	30/08/2021	UK/51/2021/0010
Transport for Wales	769	769452	A	10/09/2021	UK/51/2021/0010
Transport for Wales	769	769452	B	10/09/2021	UK/51/2021/0010
Vintage Trains	47	47773	A	08/09/2021	UK/51/2020/0034
Vivarail	230	230001	A	01/09/2021	UK/51/2020/0014
Vivarail	230	230001	B	31/08/2021	UK/51/2020/0014
West Coast Railways	37	37669	A	24/08/2021	UK/51/2020/0015
West Coast Railways	37	37706	A	25/08/2021	UK/51/2020/0015
West Coast Railways	47	47760	A	25/08/2021	UK/51/2020/0034
West Coast Railways	47	47786	A	25/08/2021	UK/51/2020/0034
West Coast Railways	47	47832	A	24/08/2021	UK/51/2020/0034
West Coast Railways	47	47848	A	24/08/2021	UK/51/2020/0034
West Coast Railways	47	47854	A	25/08/2021	UK/51/2020/0034
West Coast Railways	57	57001	A	24/08/2021	UK/51/2020/0071
West Coast Railways	98	98466	A	03/08/2021	UK/51/2020/0017
West Coast Railways	98	98532	A	04/08/2021	UK/51/2020/0017
West Coast Railways	98	98699	A	04/08/2021	UK/51/2020/0017
West Coast Railways	98	98767	A	05/08/2021	UK/51/2020/0017
West Coast Railways	98	98851	A	05/08/2021	UK/51/2020/0017
West Coast Railways	98	98898	A	12/08/2021	UK/51/2020/0017
West Midlands Trains	170	170501	B	18/09/2021	UK/51/2020/0051
West Midlands Trains	170	170508	B	17/08/2021	UK/51/2020/0051
West Midlands Trains	170	170514	A	01/09/2021	UK/51/2020/0051
West Midlands Trains	170	170514	B	01/09/2021	UK/51/2020/0051
West Midlands Trains	170	170516	A	08/09/2021	UK/51/2020/0051
West Midlands Trains	170	170516	B	08/09/2021	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



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Cc

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